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the 1990s, the number of people in the world who are undernourished has increased from 600 million to 800 million. The number of people who are malnourished has increased from 1.2 billion to 1.5 billion. The number of people who are obese has increased from 100 million to 300 million.

The World Bank has estimated that the cost of malnutrition to the world economy is \$100 billion per year. The cost of obesity to the world economy is \$100 billion per year. The cost of undernutrition to the world economy is \$100 billion per year.

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the 1990s, the number of people in the world who are obese has increased by 100 million (World Health Organization 2000). The prevalence of obesity in the United States has increased from 15% in 1980 to 25% in 1994 (Flegal et al. 1994).

Obesity is a complex condition, and the aetiology is multifactorial. The most commonly cited aetiological factors are genetic, environmental and behavioural. The genetic aetiology of obesity is complex, and the inheritance of obesity is not fully understood. Environmental factors such as diet and physical activity are also important. Behavioural factors such as sedentary lifestyle and overeating are also important. The interaction of these factors is complex, and the aetiology of obesity is not fully understood.

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FIFTH ANNUAL REPORT
OF THE
SECRETARY OF STATE
OF THE
STATE OF MICHIGAN,
RELATING TO THE REGISTRY AND RETURN OF
BIRTHS, MARRIAGES, AND DEATHS,
FOR THE YEAR 1871.



BY AUTHORITY.

LANSING:
W. S. GEORGE & CO., STATE PRINTERS AND BINDERS.
1874.

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INTRODUCTORY LETTER OF TRANSMITTAL.

STATE DEPARTMENT, MICHIGAN, }
SECRETARY'S OFFICE, }
Lansing, September, 1874. }

TO JOHN J. BAGLEY, *Governor of Michigan:*

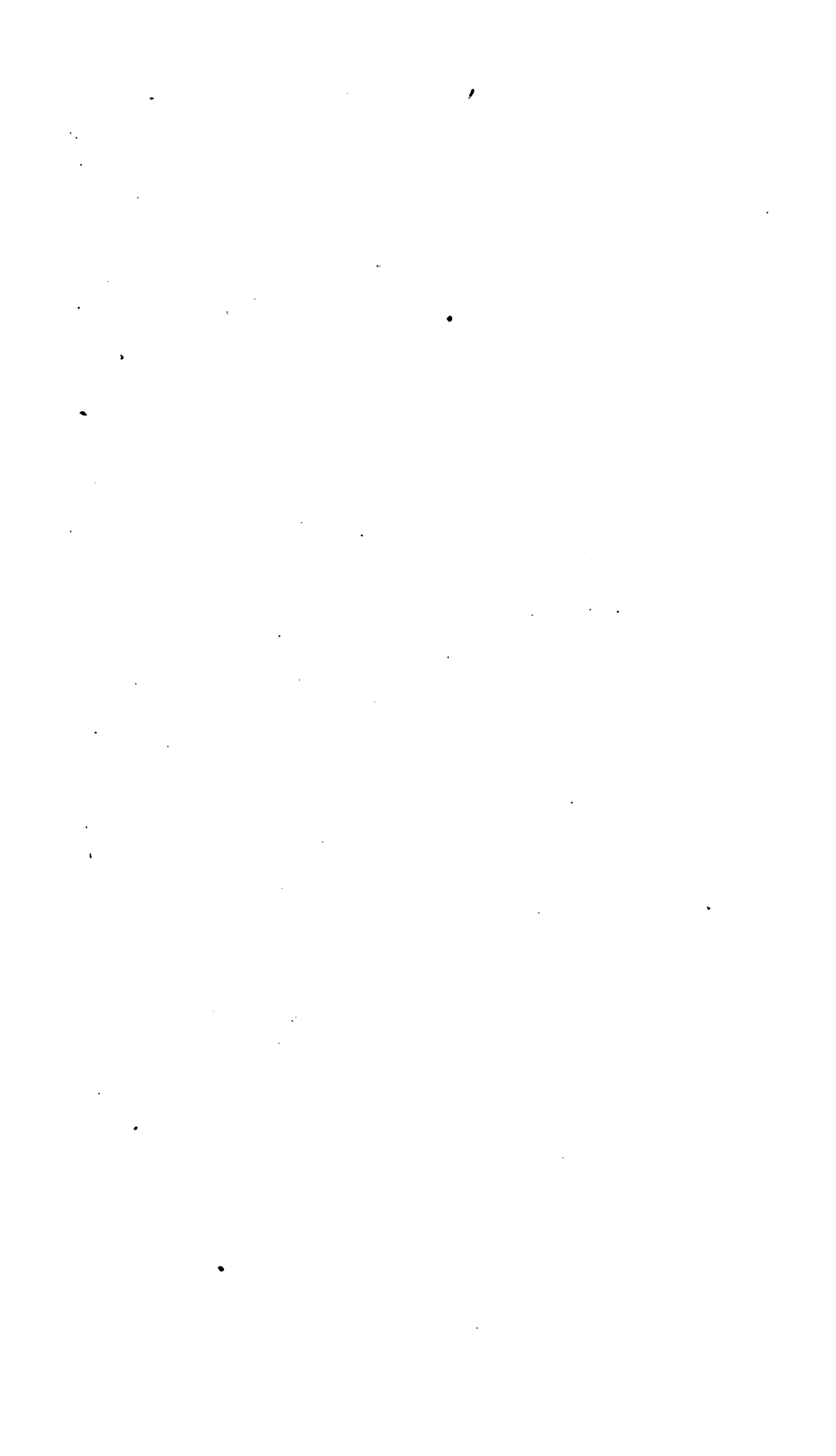
SIR:—I have the honor to submit herewith the Fifth Annual Report of this Department, concerning Births, Marriages, and Deaths returned for the year 1871.

Considering the difficulties connected with the work, a majority of the County Clerks have been very diligent in the performance of their duties relating to these statistics.

The work of collecting, tabulating, and commenting upon these statistics for the year 1871 has been under the immediate supervision of Dr. H. B. Baker, the present Secretary of the State Board of Health, and Superintendent of Vital Statistics, who, as a committee from the State Medical Society, performed this service for the Vital Statistics for 1869, and also for the Report for 1870.

Very respectfully,

DANIEL STRIKER,
Secretary of State.



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ERRATUM.

In the last three columns of Exhibit M., page 61, the decimal points should be one figure further to the right, making the per cent. read ten times larger in each instance; and in foot-note *a* read *excludes* instead of *includes*.

FIFTH REGISTRATION REPORT.

GENERAL REMARKS AND STATEMENTS.

In the Introduction to the last Report, over the signature of the Secretary of State, certain suggestions were made pointing out how the law might be so amended as to make provisions for obtaining very much better and more complete statistics than it is possible to collect as the law now stands. Some of those recommendations have been acted upon, and have become the law of the State. In accordance with certain other of those suggestions, some of the friends of progress in this matter drew up a bill for the amendment of the law, and the bill received the recommendation of the Committee on Public Health in the Legislature of 1873; but for lack of sufficient explanation, or for some reason, it failed to become a law. The reasons why the law should be amended are as strong now as when suggested in last Report. The statistics are gradually becoming more accurate, but in some particulars the law providing for their collection may be improved, and attention is again respectfully called to the following suggestions:

Under the present system of enumerating births and deaths after the year in which they occurred has passed, a large number are overlooked. If, therefore, the births and deaths were recorded soon after their occurrence, as marriages are, the value of these statistics would be very much enhanced. This end might be secured by making it the duty of every person acting as physician or midwife, or in any way having charge of births or deaths, to furnish for record with the township clerk or supervisor a written statement of all the facts connected there-

with required by law, or by making it the duty of parents or eldest person next of kin to record births and deaths immediately after their occurrence, as is required by law in the State of Massachusetts, and as is also the case in England. These methods of recording, supplemented by the present method of collecting, would probably result in the enumeration of many births and deaths now overlooked, and in greater accuracy concerning all collected.

Society at large has an interest in these statistics, over and above any personal interest of the few who record them, and the people of the State, therefore, should pay for their collection; no expense for recording them should be borne by persons placing them upon record.

The age at last birthday of parents of children born is an important item, and would add materially to the facilities for studying this subject. The age of persons married should be stated as at last birth-day; it is not definitely stated under the present law. The facts concerning each person married, as to whether it is the first or which subsequent marriage, should also be stated.

Another important item is the nativity of parents of all who die, since it bears upon the question of relative vigor and stamina of the children of native and foreign parents. This would enable us to determine the truth or falsity of the charges that the native Americans are not self-supporting, but dependent upon the larger birth-rate of the foreign element to maintain the population.

The occupation of fathers of children who die should be obtained for those below a certain specified age, say fifteen years.

The law should provide that county clerks return to the State Department the Christian Names of children born and previously returned before such names have been given them. The most prompt of the county clerks now make such returns, but the law does not make distinct provision therefor. Compensation might be the same as for any similar return.

In computing the per cent. showing the relation between the population and the births, marriages, and deaths in this Report, the compiler has used the population as shown by the census of 1870; and he has availed himself of the opportunities for correction afforded by a comparison of the Census and Registration Report of 1870.

As is well known, the general management and tabulation of these statistics require a certain amount of technical knowledge, and this is particularly true as regards the statistics of deaths, wherein a knowledge of professional nomenclature is essential, and a good system of classification of causes of death desirable. Heretofore, the law provided that the Secretary of State could have "such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in the State for that purpose." This left the matter in a very indefinite and uncertain condition, and, as a matter of fact, no committee was appointed to supervise the work of this Report by either of the bodies of medical men mentioned in the law.

Since the last Report was published, but after considerable work had been done upon the statistics in this Report, a law has been passed making more permanent provision for professional supervision of the vital statistics of this State.

The law referred to (Act No. 81, Laws of 1873) provides for the establishment of a State Board of Health, whose members are appointed by the Governor and confirmed by the Senate. This Board elects a Secretary, whose duties are specified in the law, but who is also required to act as Medical Superintendent of the Vital Statistics. Section 10 of said law being as follows:

SECTION 10. The Secretary of the State Board of Health shall be the Superintendent of Vital Statistics. Under the general direction of the Secretary of State, he shall collect these statistics, and prepare and publish the report required by law relating to births, marriages, and deaths.

Having been elected Secretary of the State Board of Health, the undersigned assumed the duties of Superintendent of Vital

Statistics, on the first day of August, 1873. The work on this report had then, and has since, been delayed for more reasons than one: the returns from a few of the County Clerks were behind time; the previous report having been delayed by the great amount of statistical labor demanded of the office in compiling and publishing the "Statistics of Michigan, 1870,"—compiled from the U. S. Census,—work upon the Report for 1871 could not be commenced as soon as otherwise; the labor necessarily involved in performing the duties of Secretary of the State Board of Health has not left so much time for the supervision of this work as would allow the compiler to rapidly complete his part of the labor; and finally, this Report was delayed because the complicated nature of the work, extra care in proof-reading, etc., cause books of this character to be slow work in printers' hands.

After all, the main value of such statistics is not in their immediate application to business affairs for a few days, weeks, or months only, but in those general principles which are only reached through long series of observations extending through many years, and then it depends upon their accuracy, which is better secured by prolonged than by hasty labor. Life tables are of great pecuniary importance to the people, inasmuch as the Life Insurance business is based upon them, but no Life Insurance Company would trust or venture their capital on the mortality experience of a single year in a single locality, and what is true in this particular of this one item of Vital Statistics is true of other items.

The hope of the compiler is that the Vital Statistics of Michigan for 1871 may form good reliable links in the chains of evidence relative to sources of danger to life and health, as well as to business connected with the death-rate, and that the work may eventually prove useful to the people of Michigan, and to humanity in general.

HENRY B. BAKER, M. D.,
Supt. of Vital Statistics.

BIRTHS, MARRIAGES, AND DEATHS.

FOR THE YEAR 1871.

This Report is based upon the returns of births, marriages, and deaths, made to the State Department by the clerks of the several counties in the State, the original enumeration of births and deaths being made by the supervisors and assessors of townships and cities, except in Detroit, where it is done by persons appointed by the Common Council; the returns of marriages to the county clerk are made by ministers of the Gospel and justices of the peace who solemnize marriages.

Inasmuch as the practical working of the system of record and return has not yet become perfect for either births, marriages, or deaths, exact mathematical accuracy cannot be claimed for the numbers which represent these three important facts for this State during the year 1871. In nearly all cases the compiler has been careful to use such terms as would convey the idea that the numbers represent the births, marriages, and deaths *returned*, and not the actual numbers which *occurred*. A method of correction has been devised, however, which is believed to render it possible to approximate the actual number of births and deaths, and in some of the tables and exhibits this correction has been made and specified.

The relation which the births, marriages, and deaths returned for the year 1871 bear to those for previous years may be seen by examining Exhibit A, which also exhibits the rela-

tion which the births, marriages, and deaths sustain to each other in each of the years for which a record has been made in this State.

EXHIBIT A.—Births, Marriages, and Deaths, returned as having occurred in Michigan, for the Years 1868, 1869, 1870, and 1871.

	1868.	1869.	1870.	1871.
Marriages*.....	8,635	10,284	9,643	10,181
Births.....	25,020	27,093	26,663	25,992
Deaths.....	8,285	9,145	10,766	9,728
Excess of Births over Deaths....	16,785	17,948	15,897	16,264

* Corrected up to May 1, 1873.

TABLE I.—The Number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year, and the Average Number and Excess during Specified Periods of Time within the Year 1871.

PERIODS OF TIME.	Marriages.	Births.	Deaths.	Excess of Births over Deaths.
Year 1871.....	10,181.00	25,992.00	9,728.00	16,264.00
Quarter.....	2,515.25	6,498.00	2,432.00	4,066.00
Month.....	843.41	2,166.00	810.66	1,355.34
Week.....	195.78	499.84	187.07	312.77
Day.....	27.69	71.21	26.65	44.56

EXHIBIT B.—*Statements concerning Births, Marriages, and Deaths in Michigan, during the Years 1870 and 1871.*

	1870 *	1871 *
Inhabitants represented by returns of marriages to one marriage.....	122.11	113.37
In population represented by marriages, males to one marriage.....	63.71	60.31
In population represented by marriages, females to one marriage...	58.40	53.27
Male inhabitants at ages at which marriages occurred to one marriage.....	37.63	37.96
Female inhabitants at ages at which marriages occurred to one marriage.....	38.84	37.63
Inhabitants represented by births to each child born.....	43.43	46.29
Inhabitants, males to each male child born.....	43.39	43.97
Inhabitants, females to each female child born.....	43.57	44.57
Inhabitants, females aged 16 to 45 to each child born.....	9.35	9.51
Children born to 100 females aged 16 to 45.....	10.68	10.59
Inhabitants represented by deaths to one death.....	107.13	117.54
Inhabitants, males to one death of male.....	107.48	114.75
Inhabitants, females to one death of female.....	107.50	121.67
Deaths, males to 100 females.....	108.73	115.17
Births, males to 100 females.....	108.80	110.21
Total population of State, males to 100 females.....	109.22	109.22
Births to one death.....	2.47	2.67
Births, males to one death of male.....	2.47	2.62
Births, females to one death of female.....	2.47	2.74
Children born of which the sex was unknown or not stated.....	91.00	69.00
Deaths of which the sex was unknown or not stated.....	37.00	35.00

* Marriages corrected up to May 1, 1873.

* In computing statements for this column, the inhabitants June 1, 1870, were used.

* See page 150.

FIFTH REGISTRATION REPORT.

TABLE II.—*Exhibiting, by Sex, the Population June 1, 1870, the Number of Marriages, Births, and Deaths, and the excess of Births over Deaths in Michigan during the Year 1871.*

STATE AND COUNTIES.	POPULATION JUNE 1, 1870.			BIRTHS, 1871.			DEATHS, 1871.			EXCESS OF BIRTHS OVER DEATHS. ^a		
	SEX.			SEX.			SEX.			SEX.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
State.....	1,184,282	618,251	566,031	25,992	12,596	12,327	9,728	5,190	4,538	16,264	8,406	7,824
Alcona.....	766	441	825	23	16	7	5	4	1	18	12	6
Allegan.....	32,105	17,000	15,105	631	307	318	278	143	132	843	164	181
Alpena.....	2,756	1,719	1,087	87	92	15	18	10	8	24	12	12
Antrim.....	1,985	1,118	867	46	26	20	10	8	2	36	18	18
Barry.....	22,200	11,646	10,554	448	216	225	164	83	79	279	181	146
Bay.....	15,900	8,914	6,986	466	253	212	209	120	88	257	132	124
Benzie.....	2,184	1,168	1,016	67	38	34	18	8	10	49	25	24
Berrien.....	35,104	18,068	17,041	559	292	266	274	147	125	265	145	141
Branch.....	26,227	13,349	12,979	413	225	188	174	102	72	299	128	116
Calhoun.....	36,571	18,550	18,021	700	371	327	827	172	151	873	199	176
Cass.....	21,096	10,938	10,158	341	168	171	185	69	66	206	99	105

Charlevoix..... ^e	1,794	911	789	178	256	222	81	16	7	9	37	15	22
Cheboygan.....	2,197	1,235	962	21	48	26	22	12	7	5	36	19	17
Chippewa..... ^h	1,490	990	760	11	25	13	12	23	9	14	2	4	-2
Clare..... ⁱ	866	285	81	13	25	16	9	9	5	4	16	11	5
Clinton.....	22,851	11,813	11,038	168	559	279	278	2	71	100	888	298	178
Delta..... ^j	2,441	1,486	955	15	93	50	48	23	11	12	70	89	31
Eaton.....	25,163	12,949	12,214	225	508	277	291	210	98	112	296	179	119
Emmet.....	1,211	629	582	14	46	23	28	47	30	17	-1	-7	6
Genesee.....	33,895	17,449	16,446	254	577	285	292	207	102	105	370	183	187
Grand Traverso... ^k	4,443	2,389	2,054	33	112	53	59	25	13	12	87	40	47
Gratiot.....	11,808	6,189	5,619	110	265	134	131	79	40	39	156	94	92
Hillsdale.....	81,688	46,104	45,584	822	575	286	289	286	133	153	289	153	136
Houghton..... ^l	13,882	7,745	6,137	90	399	207	192	110	73	37	259	134	155
Huron..... ^m	9,048	5,036	4,012	68	281	146	135	106	59	47	175	87	88
Ingham..... ⁿ	25,268	13,096	12,172	235	567	285	282	192	103	88	375	182	194
											1		-1

^a The figures with the minus sign placed before them indicate the excess of deaths over births.
^b Includes population of Oscoda county. No returns of deaths from township of Alcona.
^c No returns of deaths from townships of Clyde and Manlius.
^d No returns of births or deaths from township of Bangor.
^e No returns of deaths from townships of Benzonla, Colfax, Platte, and Weldon. No returns of births or deaths from township of Inland.
^f No returns of births or deaths from township of La Grange.
^g No returns of births from township of Evangelina, and no returns of births or deaths from township of Norwood.
^h No returns of births from township of Sugar Island.
ⁱ No returns of births or deaths from township of Surry, and no returns of deaths from township of Winterfield. No returns of births from township of Winfield.
^j No returns of births from townships of Delta and Masonville. No returns of deaths from townships of Masonville, Nahma, and Winona.
^k No returns of deaths from township of Mayfield.
^l No returns of births or deaths from townships of Hancock and Portage.
^m No returns of deaths from townships of Bingham, Colfax, Meade, and Verona, and no returns of births or deaths from township of White Rock.
ⁿ No returns of births from township of Onondaga.

FIFTH REGISTRATION REPORT.

TABLE II.—CONTINUED.

COUNTIES.	POPULATION JUNE 1, 1870.			BIRTHS, 1871.			DEATHS, 1871.			EXCESS OF BIRTHS OVER DEATHS. ^a		
	SEX.			SEX.			SEX.			SEX.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Ionia..... ^b	27,675	14,453	13,223	585	288	249	8	225	127	97	156	152
Iosco..... ^c	8,175	1,913	1,262	55	31	24	.....	28	14	9	17	15
Isabella..... ^d	4,118	2,211	1,902	139	69	70	.....	51	25	26	44	44
Jackson.....	36,040	19,056	16,984	656	364	321	1	235	134	101	280	220
Kalamazoo.....	32,065	16,522	15,548	519	292	225	2	248	129	117	163	108
Kalkaska..... ^e	424	244	180	28	16	12	.....	8	2	1	14	11
Kent.....	50,410	26,100	24,244	1,025	546	475	4	419	218	198	828	277
Keweenaw..... ^f	4,206	2,827	1,379	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lake.....	548	805	248	46	28	28	.....	5	2	8	21	20
Lapeer.....	21,842	11,051	10,291	469	241	228	.....	125	69	55	172	178
Leelanaw..... ^g	4,577	2,401	2,176	137	78	64	.....	55	21	34	52	30
Lenawee.....	45,601	22,916	22,685	753	425	326	2	381	157	174	265	152
Livingston.....	19,885	10,072	9,263	824	184	139	1	125	67	58	117	81

	1,715	2,005	2,110	2,225	2,340	2,455	2,570	2,685	2,800	2,915	3,030	3,145	3,260	3,375	3,490	3,605	3,720	3,835	3,950	4,065	4,180	4,295	4,410	4,525	4,640	4,755	4,870	4,985	5,100	5,215	5,330	5,445	5,560	5,675	5,790	5,905	6,020	6,135	6,250	6,365	6,480	6,595	6,710	6,825	6,940	7,055	7,170	7,285	7,400	7,515	7,630	7,745	7,860	7,975	8,090	8,205	8,320	8,435	8,550	8,665	8,780	8,895	9,010	9,125	9,240	9,355	9,470	9,585	9,700	9,815	9,930	10,045	10,160	10,275	10,390	10,505	10,620	10,735	10,850	10,965	11,080	11,195	11,310	11,425	11,540	11,655	11,770	11,885	12,000	12,115	12,230	12,345	12,460	12,575	12,690	12,805	12,920	13,035	13,150	13,265	13,380	13,495	13,610	13,725	13,840	13,955	14,070	14,185	14,300	14,415	14,530	14,645	14,760	14,875	14,990	15,105	15,220	15,335	15,450	15,565	15,680	15,795	15,910	16,025	16,140	16,255	16,370	16,485	16,600	16,715	16,830	16,945	17,060	17,175	17,290	17,405	17,520	17,635	17,750	17,865	17,980	18,095	18,210	18,325	18,440	18,555	18,670	18,785	18,900	19,015	19,130	19,245	19,360	19,475	19,590	19,705	19,820	19,935	20,050	20,165	20,280	20,395	20,510	20,625	20,740	20,855	20,970	21,085	21,200	21,315	21,430	21,545	21,660	21,775	21,890	22,005	22,120	22,235	22,350	22,465	22,580	22,695	22,810	22,925	23,040	23,155	23,270	23,385	23,500	23,615	23,730	23,845	23,960	24,075	24,190	24,305	24,420	24,535	24,650	24,765	24,880	24,995	25,110	25,225	25,340	25,455	25,570	25,685	25,800	25,915	26,030	26,145	26,260	26,375	26,490	26,605	26,720	26,835	26,950	27,065	27,180	27,295	27,410	27,525	27,640	27,755	27,870	27,985	28,100	28,215	28,330	28,445	28,560	28,675	28,790	28,905	29,020	29,135	29,250	29,365	29,480	29,595	29,710	29,825	29,940	30,055	30,170	30,285	30,400	30,515	30,630	30,745	30,860	30,975	31,090	31,205	31,320	31,435	31,550	31,665	31,780	31,895	32,010	32,125	32,240	32,355	32,470	32,585	32,700	32,815	32,930	33,045	33,160	33,275	33,390	33,505	33,620	33,735	33,850	33,965	34,080	34,195	34,310	34,425	34,540	34,655	34,770	34,885	35,000	35,115	35,230	35,345	35,460	35,575	35,690	35,805	35,920	36,035	36,150	36,265	36,380	36,495	36,610	36,725	36,840	36,955	37,070	37,185	37,300	37,415	37,530	37,645	37,760	37,875	37,990	38,105	38,220	38,335	38,450	38,565	38,680	38,795	38,910	39,025	39,140	39,255	39,370	39,485	39,600	39,715	39,830	39,945	40,060	40,175	40,290	40,405	40,520	40,635	40,750	40,865	40,980	41,095	41,210	41,325	41,440	41,555	41,670	41,785	41,900	42,015	42,130	42,245	42,360	42,475	42,590	42,705	42,820	42,935	43,050	43,165	43,280	43,395	43,510	43,625	43,740	43,855	43,970	44,085	44,200	44,315	44,430	44,545	44,660	44,775	44,890	45,005	45,120	45,235	45,350	45,465	45,580	45,695	45,810	45,925	46,040	46,155	46,270	46,385	46,500	46,615	46,730	46,845	46,960	47,075	47,190	47,305	47,420	47,535	47,650	47,765	47,880	47,995	48,110	48,225	48,340	48,455	48,570	48,685	48,800	48,915	49,030	49,145	49,260	49,375	49,490	49,605	49,720	49,835	49,950	50,065	50,180	50,295	50,410	50,525	50,640	50,755	50,870	50,985	51,100	51,215	51,330	51,445	51,560	51,675	51,790	51,905	52,020	52,135	52,250	52,365	52,480	52,595	52,710	52,825	52,940	53,055	53,170	53,285	53,400	53,515	53,630	53,745	53,860	53,975	54,090	54,205	54,320	54,435	54,550	54,665	54,780	54,895	55,010	55,125	55,240	55,355	55,470	55,585	55,700	55,815	55,930	56,045	56,160	56,275	56,390	56,505	56,620	56,735	56,850	56,965	57,080	57,195	57,310	57,425	57,540	57,655	57,770	57,885	58,000	58,115	58,230	58,345	58,460	58,575	58,690	58,805	58,920	59,035	59,150	59,265	59,380	59,495	59,610	59,725	59,840	59,955	60,070	60,185	60,300	60,415	60,530	60,645	60,760	60,875	60,990	61,105	61,220	61,335	61,450	61,565	61,680	61,795	61,910	62,025	62,140	62,255	62,370	62,485	62,600	62,715	62,830	62,945	63,060	63,175	63,290	63,405	63,520	63,635	63,750	63,865	63,980	64,095	64,210	64,325	64,440	64,555	64,670	64,785	64,900	65,015	65,130	65,245	65,360	65,475	65,590	65,705	65,820	65,935	66,050	66,165	66,280	66,395	66,510	66,625	66,740	66,855	66,970	67,085	67,200	67,315	67,430	67,545	67,660	67,775	67,890	68,005	68,120	68,235	68,350	68,465	68,580	68,695	68,810	68,925	69,040	69,155	69,270	69,385	69,500	69,615	69,730	69,845	69,960	70,075	70,190	70,305	70,420	70,535	70,650	70,765	70,880	70,995	71,110	71,225	71,340	71,455	71,570	71,685	71,800	71,915	72,030	72,145	72,260	72,375	72,490	72,605	72,720	72,835	72,950	73,065	73,180	73,295	73,410	73,525	73,640	73,755	73,870	73,985	74,100	74,215	74,330	74,445	74,560	74,675	74,790	74,905	75,020	75,135	75,250	75,365	75,480	75,595	75,710	75,825	75,940	76,055	76,170	76,285	76,400	76,515	76,630	76,745	76,860	76,975	77,090	77,205	77,320	77,435	77,550	77,665	77,780	77,895	78,010	78,125	78,240	78,355	78,470	78,585	78,700	78,815	78,930	79,045	79,160	79,275	79,390	79,505	79,620	79,735	79,850	79,965	80,080	80,195	80,310	80,425	80,540	80,655	80,770	80,885	81,000	81,115	81,230	81,345	81,460	81,575	81,690	81,805	81,920	82,035	82,150	82,265	82,380	82,495	82,610	82,725	82,840	82,955	83,070	83,185	83,300	83,415	83,530	83,645	83,760	83,875	83,990	84,105	84,220	84,335	84,450	84,565	84,680	84,795	84,910	85,025	85,140	85,255	85,370	85,485	85,600	85,715	85,830	85,945	86,060	86,175	86,290	86,405	86,520	86,635	86,750	86,865	86,980	87,095	87,210	87,325	87,440	87,555	87,670	87,785	87,900	88,015	88,130	88,245	88,360	88,475	88,590	88,705	88,820	88,935	89,050	89,165	89,280	89,395	89,510	89,625	89,740	89,855	89,970	90,085	90,200	90,315	90,430	90,545	90,660	90,775	90,890	91,005	91,120	91,235	91,350	91,465	91,580	91,695	91,810	91,925	92,040	92,155	92,270	92,385	92,500	92,615	92,730	92,845	92,960	93,075	93,190	93,305	93,420	93,535	93,650	93,765	93,880	93,995	94,110	94,225	94,340	94,455	94,570	94,685	94,800	94,915	95,030	95,145	95,260	95,375	95,490	95,605	95,720	95,835	95,950	96,065	96,180	96,295	96,410	96,525	96,640	96,755	96,870	96,985	97,100	97,215	97,330	97,445	97,560	97,675	97,790	97,905	98,020	98,135	98,250	98,365	98,480	98,595	98,710	98,825	98,940	99,055	99,170	99,285	99,400	99,515	99,630	99,745	99,860	99,975	100,090	100,205	100,320	100,435	100,550	100,665	100,780	100,895	101,010	101,125	101,240	101,355	101,470	101,585	101,700	101,815	101,930	102,045	102,160	102,275	102,390	102,505	102,620	102,735	102,850	102,965	103,080	103,195	103,310	103,425	103,540	103,655	103,770	103,885	104,000	104,115	104,230	104,345	104,460	104,575	104,690	104,805	104,920	105,035	105,150	105,265	105,380	105,495	105,610	105,725	105,840	105,955	106,070	106,185	106,300	106,415	106,530	106,645	106,760	106,875	106,990	107,105	107,220	107,335	107,450	107,565	107,680	107,795	107,910	108,025	108,140	108,255	108,370	108,485	108,600	108,715	108,830	108,945	109,060	109,175	109,290	109,405	109,520	109,635	109,750	109,865	109,980	110,095	110,210	110,325	110,440	110,555	110,670	110,785	110,900	111,015	111,130	111,245	111,360	111,475	111,590	111,705	111,820	111,935	112,050	112,165	112,280	112,395	112,510	112,625	112,740	112,855	112,970	113,085	113,200	113,315	113,430	113,545	113,660	113,775	113,890	114,005	114,120	114,235	114,350	114,465	114,580	114,695	114,810	114,925	115,040	115,155	115,270	115,385	115,500	115,615	115,730	115,845	115,960	116,075	116,190	116,305	116,420	116,535	116,650	116,765	116,880	116,995	117,110	117,225	117,340	117,455	117,570	117,685	117,800	117,915	118,030	118,145	118,260	118,375	118,490	118,605	118,720	118,835	118,950	119,065	119,180	119,295	119,410	119,525	119,640	119,755	119,870	119,985	120,100	120,215	120,330	120,445	120,560	120,675	120,790	120,905	121,020	121,135	121,250	121,365	121,480	121,595	121,710	121,825	121,940	122,055	122,170	122,285	122,400	122,515	122,630	122,745	122,860	122,975	123,090	123,205	123,320	123,435	123,550	123,665	123,780	123,895	124,010	124,125	124,240	124,355	124,470	124,585	124,700	124,815	124,930	125,045	125,160	125,275	125,390	125,505	125,620	125,735	125,850	125,965	126,080	126,195	126,310	126,425	126,540	126,655	126,770	126,885	127,000	127,115	127,230	127,345	127,460	127,575	127,690	127,805	127,920	128,035	128,150	128,26
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TABLE II.—CONTINUED.

COUNTIES.	POPULATION JUNE 1, 1870.			MARRIAGES, 1871.	BIRTHS, 1871.			DEATHS, 1871.			EXCESS OF BIRTHS OVER DEATHS. ^a					
	Total.	SEX.			Total.	SEX.		Total.	SEX.		Total.	SEX.				
		Males.	Females.			Males.	Females.		Males.	Females.		Males.	Females.			
Newaygo..... ^b	7,292	3,910	8,882	66	135	68	65	2	29	17	11	1	106	51	54	1
Oakland.....	40,906	21,185	19,771	334	564	287	277	.....	265	139	126	.....	299	148	151	.....
Oceana..... ^c	7,222	3,948	8,974	60	181	95	85	1	70	38	31	1	111	57	54	.....
Ontonagon.....	2,346	1,430	1,416	6	75	41	34	.....	18	11	7	.....	57	20	27	.....
Oscoda..... ^d	2,104	1,167	987	31	95	52	42	1	26	17	9	.....	69	35	38	1
Ottawa..... ^e	26,650	14,050	12,600	202	707	351	346	10	206	117	89	.....	501	234	257	10
Presque Isle.....	835	229	126	*	10	4	6	.....	7	5	2	.....	8	-1	4	.....
Saginaw..... ^f	89,098	21,064	18,084	352	1,024	530	493	1	336	184	153	.....	689	346	341	1
Sanilac..... ^g	14,565	7,722	6,843	96	327	175	149	3	73	25	48	.....	254	150	101	3
Schoolcraft..... ^h	799	519	280	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shiawassee.....	27,822	10,315	10,007	146	460	228	231	1	155	85	70	.....	305	143	161	1
St. Clair.....	30,759	19,011	17,748	304	945	501	443	1	834	177	153	4	611	324	290	-8
St. Joseph.....	26,273	13,480	12,792	309	417	216	201	.....	175	79	96	.....	242	137	105	.....
Tuscola..... ⁱ	13,715	7,263	6,452	111	332	182	170	.....	81	48	33	.....	271	134	137	.....

BIRTHS, MARRIAGES, AND DEATHS.

XXV

Van Buren.....	28,305	14,907	19,928	221	592	293	297	2	232	116	116	.....	860	177	181	2
Washtenaw.....	41,440	21,478	19,963	800	732	892	884	6	297	173	124	1	485	220	210	5
Wayne.....	119,008	59,964	59,104	1,111	3,799	2,022	1,768	6	1,444	817	631	6	2,855	1,208	1,147	.....
Wexford.....	650	844	806	8	13	6	7	.....	4	1	3	.....	9	5	4	.....

^a The figures with the minus sign placed before them indicate the excess of deaths over births.

^b No returns of deaths from townships of Beaver, Big Prairie, Everett, Norwich, and Sheridan, and no returns of births or deaths from townships of Bridgeton and Denver.

^c No returns of deaths from township of Newfield.

^d No returns of deaths from townships of Burdell, Middle Branch, and Rose Lake.

^e No returns of deaths from township of Allendale.

^f No returns of births or deaths from township of St. Charles.

^g No returns of deaths from townships of Argyle, Buel, Flynn, Lamotte, Sanilac, Washington, and Watertown, and no returns of births or deaths from townships of Delaware, Elmer, and Moore.

^h No returns of births, marriages, or deaths.

ⁱ No returns of deaths from townships of Ellington, Millington, and No. vesta.

^j No returns of deaths from township of Lyndon.

^k No returns of births from townships of Brownstown, Taylor, and Van Buren, and no returns of births or deaths from the township of Monguagon.

^l No returns of deaths from township of Selma, and no returns of births or deaths from townships of Colfax and Henderson.

^m No returns of marriages.

BIRTHS.

The total number of births returned as having occurred in the State of Michigan during the year 1871 was 25,992.*

Of the births returned, the average number during specified periods of time was as follows: *

Average number of children per quarter.....	6,498.00
Average number of children per month.....	2,166.00
Average number of children per week.....	499.84
Average number of children per day.....	71.21

The actual number and per cent. of births returned as having occurred in each quarter of the year, is shown in Table I., which also exhibits the same for each of the three preceding years:

TABLE I.

Births by Quarters of the Year, exhibiting the Number and Per Cent. of Totals for the Years 1868, 1869, 1870, and 1871, according to the Returns.

TOTALS AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.	
	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.
Totals.....	25,020	100.00	27,098	100.00	26,668	100.00	25,992	100.00
March.....	5,561	21.98	5,415	19.98	5,440	20.40	5,412	20.82
June.....	^b 5,909	23.61	6,348	23.43	6,491	24.34	5,848	22.48
September.....	6,924	27.67	7,888	29.09	7,500	28.12	7,225	27.79
December.....	6,628	26.49	7,881	27.24	7,100	26.62	7,446	28.64
Unknown.....	^b 58	.23	66	.24	182	.49	66	.25
Average ^c	6,255	25.00	6,774	25.00	6,665	25.00	6,498	25.00

* See page 5.

^b See notes to month of April and Unknown in Table II.

^c The number in unknown quarter of year included.

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TABLE II.—*Births during the Years 1868, 1869, 1870, and 1871, according to the Returns, exhibiting the Number and Per Cent. of Total, by Months, arranged in order by Number, Months having the greatest number first.*

Order.	1868.				1869.				1870.				1871.				
	Months.		Number.	Per cent. of total.	Months.		Number.	Per cent. of total.	Months.		Number.	Per cent. of total.	Months.		Number.	Per cent. of total.	
	Total	25,020	100.00	Total	27,093	100.00	Total	26,663	100.00	Total	25,992	100.00	
1.....	August	2,399	9.58	2,731	August	2,731	10.08	September	September	2,602	9.75	2,602	December	2,639	10.15	2,639	
2.....	September	2,362	9.44		September	2,681	9.89	August	August	2,559	9.59		August	2,536	9.75		
3.....	December	2,283	9.12		December	2,512	9.27	October	October	2,480	9.30		September	2,518	9.68		
4.....	October	2,246	8.97		October	2,508	9.22	December	December	2,357	8.95	October	2,478	9.53	2,357	October	2,478	9.53
5.....	July	2,163	8.64	2,471	July	2,471	9.12	July	July	2,339	8.77	2,339	November	2,329		8.96	2,329
6.....	November	2,099	8.38		November	2,361	8.71	May	May	2,275	8.33		July	2,171		8.35	
7.....	March	2,043	8.16		May	2,221	8.19	November	November	2,233	8.37		May	2,046	7.87		
8.....	May	2,037	8.10		2,085	June	2,085	7.69	June	June	2,140	8.02	2,140	March	1,987	7.64	2,140
9.....	June	1,944	7.76	April		2,042	7.53	March	March	2,099	7.87	April		1,899	7.30		
10.....	April	1,928	7.70	March		2,005	7.40	April	April	2,076	7.75	June		1,898	7.30		
11.....	February	1,759	7.03	1,752		February	1,752	6.46	February	February	1,737	6.51	1,737	January	1,737	6.68	1,737
12.....	January	1,699	6.79		January	1,658	6.11	January	January	1,604	6.01	February		1,688	6.49		
.....	Unknown ^b	58	.23		Unknown	66	.24	Unknown	Unknown	132	.49	Unknown		66	.25		
.....	Average	2,055	8.33		Average	2,257.75	8.33	Average	Average	2,221.91	8.33	Average	2,166	8.33			

^a The number of births in April, 1868, as published in the Second Registration Report, was 1,607; but this number only represented twenty-five days, thirty days, at the same rate, would give the number stated in this table.

^b This number was obtained by adding three-twelfths of the number of births in unknown months, stated in the First Registration Report, to the whole number stated in the second Report, which was for the remaining nine months of the year 1868.

According to the returns, the order of greatest number of births by quarters of the year was not quite the same in 1871 as in preceding years, the greatest number being reported for the fourth quarter, instead of the third as heretofore in this State and as has also usually been the case in Massachusetts.

In the Fourth Registration Report, it was remarked that so far as records had been collected it appeared that in any given section of country the proportion of births in each part of the year was nearly the same in every year, but different at different seasons of the year, and apparently directly or indirectly controlled by the seasons. Taking the statistics as they stood, it appeared from Table III., in that report, "that the uniform proportion of births by seasons is in a majority of months influenced by the number of marriages;" and that the marriage rate was not the only cause acting, but that both the marriage and the birth rate seemed to be influenced by some cause directly connected with climate and season of the year. It was further remarked, however, on page 8, that "unless there is some deficiency in the collection of these statistics in this State which acts regularly in the same manner each year, the exceptions shown by Table III. in the months of January, February, March, August, and September, seem to show that in some months the birth-rate is greater or less, notwithstanding the influence of the marriage-rate in a contrary direction at the time the conceptions occur." A disturbing influence due to some regularly acting cause of deficient collection of the births at certain seasons of the year was suspected, and search for this cause revealed its nature. An elaborate series of computations and comparisons of the statistics of births as returned by the registration officers and by the census marshals was undertaken, and published in the "Statistics of Michigan, 1870." From these researches "It appears probable, then, that under the circumstances attending the collection of births in Michigan by the supervisors, a delay of one year before enumerating births results in omissions to such an

extent that 72.36 per cent. of the number enumerated must be added to them in order to make the number equal that which it would have been if enumerated one year sooner." Under the present law the births for January are not enumerated by the supervisors until about sixteen months after they occur; the births for February after the lapse of about fifteen months; for March after fourteen months; for April, thirteen; for May, twelve; for June, eleven; for July, ten; for August, nine; for September, eight; for October, seven; for November, six; and for December five months. The evidence seems to be that the omissions are in proportion to the time elapsing before enumeration, so that as this time is different for every month of the year, the disturbance is different in degree for every month, being greatest for January, and growing less each month thereafter; but in no month is it probable that every birth which occurs is enumerated. The total number omitted from the returns is very great. From careful computations and estimates made by comparing statistics from different sources, it is believed to have amounted to an average, during the year ending June 1st, 1870, of 63.61 per cent. of the number returned. If we apply this rule for estimating from the number returned the number of births which occurred, and conclude that the census year furnished a fair sample of enumeration, we find that instead of 25,992 there may have been 42,526 children born in Michigan during the year 1871; and instead of the averages exhibited on page 1, some others may be much nearer the truth.

But, although the omissions in enumerating the births for the census year ending June 1st, 1870, were such that 63.61 per cent. had to be added to make the true number, it is quite possible, and even probable, that as the registration system becomes more fully understood the omissions will be less each year until a minimum is reached. If we apply to the births for the year 1871 the same method of correction that was applied to the births for the census year, we find evidence con-

firming this view; for it then appears that the omissions in enumerating the births for 1871 were only such that about 51.23 per cent. should be added for omissions because of the lapse of one year's time, or about 44.83 per cent., on an average, to the whole number as they were returned. Practically, owing to the dropping of fractions, the average per cent. added for the year 1871 in Table III. is 42.86.

According to Exhibit A, in this report, then, the most probable number of births during the year 1871 was 37,038, and the averages during specified periods of time were as follows:

Average number of births per quarter.....	9,259.50
Average number of births per month.....	3,086.50
Average number of births per week.....	712.36
Average number of births per day.....	101.47

1871.

[illegible]

EXHIBIT B.—Births of Males in Michigan during the Year 1871, as Returned, as Corrected for Omissions in enumerating; the same equalized for Increase of Population during the Year covered by the Returns; and the Births, as thus corrected and equalized for the several Months, equalized for Months of 30.44 days each.

	YEAR 1871.											
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL.												
Births as returned by Registration Officers.....	988	864	1,049	955	1,061	993	1,124	1,327	1,289	1,291	1,262	1,414
Per cent. of births to be added for correction for time elapsing before enumeration.....	60.97	57.16	53.35	49.54	45.73	41.92	38.11	34.30	30.49	26.68	22.87	19.06
Number of births to be added for above correction.....	572	494	560	473	485	416	428	455	393	344	259	270
Births, if enumerated in months of occurrence.....	18,746	1,510	1,358	1,428	1,546	1,409	1,552	1,782	1,682	1,635	1,551	1,684
Per cent. of births to be added to equalize them to population at close of year.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Births to be added to equalize them to population at close of year.....	417	64	52	56	45	43	33	31	24	17	11	6
Births, as corrected, equalized to population at close of year..	19,163	1,574	1,410	1,665	1,473	1,589	1,885	1,813	1,706	1,652	1,562	1,690
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	-.56	+2.44	-.56	+4.4	-.56	+4.4	-.56	-.56	+4.4	-.56	+4.4	-.56
Number of births added or subtracted to equalize them to months of uniform length.....	+4	-28	+123	-80	+22	+21	-29	-33	+25	-80	+23	-31
Births corrected and equalized, equalized to months of uniform length.....	19,167	1,546	1,383	1,685	1,495	1,560	1,465	1,780	1,731	1,622	1,585	1,659

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EXHIBIT C.—Births of Females in Michigan during the Year 1871, as Returned; as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the Year covered by the Returns; and the Births, as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.

	YEAR 1871.												TOTAL.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Births as returned by Registration Officers.....	794	819	935	941	978	898	1,041	1,202	1,224	1,179	1,062	1,220	12,423
Per cent. of births to be added for correction for time elapsing before enumeration.....	75.89	71.15	66.41	61.67	56.93	52.19	47.45	42.71	37.97	33.23	28.49	23.75	-----
Number of births to be added for above correction.....	603	583	621	580	557	469	494	513	465	392	303	290	5,570
Births, if enumerated in months of occurrence.....	1,397	1,402	1,556	1,521	1,535	1,367	1,535	1,715	1,689	1,571	1,365	1,510	18,163
Per cent. of births to be added to equalize them to population at close of year.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35	-----
Births to be added to equalize them to population at close of year.....	59	54	55	48	43	34	32	30	24	17	10	5	411
Births, as corrected, equalized to population at close of year...	1,456	1,456	1,611	1,569	1,578	1,401	1,567	1,745	1,713	1,588	1,375	1,515	18,574
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.....	-.56	+2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56	-----
Number of births added or subtracted to equalize them to months of uniform length.....	-.26	+127	-.29	+23	-.29	+21	-.28	-.32	+25	-.29	+20	-.27	+16
Births corrected and equalized, equalized to months of uniform length.....	1,480	1,353	1,632	1,592	1,549	1,422	1,539	1,713	1,738	1,550	1,395	1,488	18,590

EXHIBIT D.—*Births of Males and of Females in Michigan during the Year 1871, Corrected for Omissions in Enumerating, and, as thus Corrected, Equalized to Months of uniform length; also, the total Births of both Sexes as thus Corrected and Equalized. Births of Children of unknown Sex not included.*

YEAR 1871.													
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Births of males if enumerated in months of occurrence.....	18,746	1,510	1,388	1,609	1,428	1,546	1,409	1,552	1,782	1,682	1,685	1,551	1,654
Days and hundredths by which the months should be increased or diminished to equalize the months to a uniform length.....		-.56	+ 2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56
Number of births added or subtracted to equalize the months to a uniform length.....	+ 4	+ 27	+ 118	- 29	+ 21	- 28	+ 21	- 28	- 32	+ 25	- 50	+ 23	- 80
Births of males corrected to months of uniform length.....	18,750	1,483	1,476	1,580	1,449	1,518	1,430	1,524	1,750	1,707	1,605	1,574	1,654
Births of females if enumerated in months of occurrence.....	18,168	1,397	1,402	1,556	1,921	1,535	1,867	1,835	1,715	1,639	1,571	1,865	1,510
Days and hundredths by which the months should be increased or diminished to equalize the months to a uniform length.....		-.56	+ 2.44	-.56	+ .44	-.56	+ .44	-.56	-.56	+ .44	-.56	+ .44	-.56
Number of births added or subtracted to equalize the months to a uniform length.....	+ 14	- 25	+ 122	- 28	+ 22	- 28	+ 20	- 28	- 31	+ 25	- 28	+ 20	- 27
Births of females corrected and equalized to months of uniform length.....	18,177	1,372	1,524	1,528	1,543	1,507	1,837	1,507	1,684	1,714	1,548	1,835	1,483
Births of males corrected and equalized to months of uniform length.....	18,750	1,483	1,476	1,580	1,449	1,518	1,430	1,524	1,750	1,707	1,605	1,574	1,654
Births corrected and equalized to months of uniform length (excluding unknown sex).....	36,927	2,855	3,000	3,108	2,992	3,025	2,917	3,031	3,434	3,421	3,148	2,959	3,137

In the preceding exhibits, the "Per cent. of births added for correction for omissions because of time elapsing before enumeration," was obtained by the following described methods. For Exhibit A the method was as follows:

Census.		BIRTHS.		Registration.	
Dec., 1869 : Jan., 1870.		Dec., 1870. : Jan., 1871.		Dec., 1870. : Jan., 1871.	
3,003	: 3,305	::	2,387	:	x

x is found to equal 2,627. The number of births actually returned for January, 1871, was 1,737. The length of time between the occurrence of the births in Dec., 1870, and their enumeration was four months; of the births for January, 1871, it was sixteen months; the difference between December and January in this respect was one year. The omissions in enumerating births for January are supposed to have equaled the difference between the number enumerated by registration officers and the number which would have been counted if the relation between the months had been the same as it was shown to be by the census, when the births for both months were enumerated at the same time. $2,627 - 1,737 = 890$ which is 51.23 + per cent. of the number returned. If a delay of one year causes omissions requiring an increase of 51.24 per cent. of births returned, then the births in May, which were collected in the following May, should be and are increased by that per cent.; the births in June, by eleven-twelfths of that per cent., and so on for the following months. The months preceding, being collected at the same time, should be increased by a larger per cent., proportioned to the length of time elapsing between occurrence and enumeration.

For Exhibit B the proportion is found as follows:

Census.		BIRTHS OF MALES.		Registration.	
Dec., 1869 : Jan., 1870.		Dec., 1870 : Jan., 1871.		Dec., 1870 : Jan., 1871.	
1,518	: 1,734	::	1,197	:	x

x is found to equal 1,367. $1,367 - 1,197 = 429$, which is 45.73

per cent. of 1,197,—the number returned. If the births of males must be increased 45.73 per cent. for the lapse of one year before enumeration, they are to be increased correspondingly for other periods of time, and thus the line of per cent. is obtained for the several months.

For Exhibit C the proportion is as follows :

BIRTHS OF FEMALES.

Census.		Registration.	
Dec., 1869	: Jan., 1870.	Dec., 1870	: Jan., 1871.
1,485	: 1,571	: 1,178	: x

x is found to equal 1,246. The number of births actually returned for January, 1871, was 794. $1,242 - 794 = 452$, which is 56.93 per cent. of the number returned.

The increase of population between the years 1860 and 1870 was such as would be accounted for by an annual increase of 4.69 per cent. of the population at the beginning of the year. The births enumerated were those in the average population during the year 1871, or, if the increase is uniform by months, the population at the middle of the year. To equalize the births for the several months to the number which at the same rate would have occurred in a population equaling that existing at the close of the year, they should be increased by one-half of the annual increase, or $2.28 +$ per cent. on an average, and the births for January should be increased by a per cent. twelve times as great as the births for December; for February, eleven times; for March, ten times, etc. The line of "per cent. of births added to equalize them to population at close of year" is thus obtained.

When the births are to be compared by months with the marriages as returned, as they are in Table III. and in Exhibit E, they should not be equalized to a uniform population. Exhibit D differs from Exhibit A in not being so equalized, and in not including children of unknown sex.

As will be seen from the foregoing, there is reason for believ-

ing that the true proportion of births in the different months is quite different from that which appears in tables constructed directly from the returns without first making corrections. This is an unfortunate result of an imperfection in the law providing for the registration and return of births and deaths, to which attention was called in the last Report. A more perfect record is secured in some other localities by requiring physicians, parents, and householders to cause a record of every birth and death which occurs under their care or in their household, to be filed with some proper officer within a certain specified time. If the law in this State could be amended so that it would contain a similar provision, the value of these statistics would be materially increased.

For purposes of research into numerous interesting questions connected with the proportion of births by months it is important that the correct proportion be known. The preceding exhibits and remarks constitute the first attempt in the Registration Reports to exhibit the methods and results of systematic corrections for omissions in enumeration, and for increase of population during the year covered by the returns. These two corrections are based upon evidence derived from comparison of these statistics with those of the U. S. Census of 1870; and so far as related to the year ending June 1st, 1870, the subject was illustrated by diagrams and discussed at some length on pages lxviii to lxxxvii, "Statistics of Michigan, 1870," to which the reader is respectfully referred for a more complete discussion of the subject so far as relates to births. The subject may come up again in connection with the study of the sex of children, and further on something more may be said concerning its relations to deaths.

For some purposes of research it is not essential that all the births be enumerated. If only a fair sample of the whole be collected, that is all that is essential to gain the knowledge sought so far as regards sex, color, nativity of parents, etc. Such returns are also valuable as regards the matter of record

for legal purposes, although they would be much more valuable if every birth was returned. The number and per cent. of births in the population in the different counties must be compared as returned, for, even if not returned in the same degree of completeness, there is as yet no way known by which they may be corrected. Throughout this Report, therefore, the tables of births are, as a rule, made up directly from the returns.

TABLE III. — *Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1871, and the Marriages solemnized in the Months of the Years 1870 and 1871 in which the conceptions probably occurred. (Births in unknown Month, of Children of unknown Sex, and Marriages in unknown Month excluded.)*

BIRTHS FOR 1871, EQUALIZED TO MONTHS OF 30.44 DAYS EACH, IN ORDER BY NUMBER,—GREATEST FIRST.

BIRTHS.		CONCEPTIONS.		No of Marriages from April, 1870, to March, 1871, equalized to months of 30.44 days each.
Year and Months.	Number.	Months.	Year.	
Year	25,853	.....	.....	9,198
December	2,586	March	1871	788
September	2,550	December	1870	869
August	2,483	November	1870	868
October	2,426	January	1871	885
November	2,359	February	1871	838
Average	2,154	.....	.....	766
July	2,126	October	1870	812
May	2,002	August	1870	574
March	1,948	June	1870	594
April	1,924	July	1870	760
June	1,919	September	1870	724
February	1,829	May	1870	747
January	1,701	April	1870	746

* Exception to statement that *less* than an average number of conceptions for births appear for months in which *less* than an average number of marriages were solemnized. There were no exceptions to the statement that *more* than an average number of conceptions appear opposite months in which *more* than an average number of marriages were solemnized.

EXHIBIT E.—*The Relation between the Births in Michigan during the Year 1871 Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1870 and 1871 in which the Conceptions probably occurred. (Births in unknown Month, of Children of unknown Sex, and Marriages in unknown Month excluded.)*

BIRTHS FOR 1871, CORRECTED AS IF ENUMERATED IN MONTHS OF OCCURRENCE, EQUALIZED TO MONTHS OF UNIFORM LENGTH, IN ORDER BY NUMBER,—GREATEST FIRST.				No. of Marriages from April, 1870, to March, 1871, equalized to Months of 30.44 days each.
BIRTHS.		CONCEPTIONS.		
Year and Months.	Number.	Months.	Year.	
Year.....	36,927	.....	.....	9,198
August.....	3,484	November.....*	1870	868
September.....	3,421	December.....	1870	868
October.....	3,148	January.....	1871	888
December.....	3,137	March.....	1871	788
March.....	3,108	June.....*	1870	594
Average.....	3,077	.....	.....	766
July.....	3,081	October.....*	1870	813
May.....	3,025	August.....	1870	574
February.....	3,000	May.....	1870	747
April.....	2,992	July.....	1870	760
November.....	2,959	February.....*	1871	838
January.....	2,855	April.....	1870	746
June.....	2,817	September.....	1870	724

* Exceptions to statement that *more* than an average number of conceptions appear for months in which *more* than an average number of marriages were solemnized and *less* than an average number of conceptions in months in which *less* than an average number of marriages were solemnized.

Table III. exhibits the relations between births returned and the marriages returned as solemnized in the months in which the conceptions probably occurred. The table is similar to one in last Report, in which it appeared that there were five exceptions to the statement that more than an average number of marriages were solemnized in months having more than an average number of conceptions, and less than an average number

of marriages in months in which less than an average number of conceptions occurred.

Exhibit E is concerning the same relation as Table III., except that in the exhibit the births are corrected, by a method shown in the preceding exhibits, for omissions resulting from time elapsing before enumeration. This correction seems to be necessary for this purpose, for, if some births are omitted in enumerations for some months and the marriages are collected for all months equally, then any comparison between the births and marriages will be unsatisfactory until the births are corrected. It will be seen that for the year 1871 there are less exceptions to the statement in the foot-note to Table III. than there are in the same statement in Exhibit E, in which the births have been corrected; but in the exhibit the statement holds true in nine out of twelve months.

BIRTHS BY COUNTIES.

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Alpena.....	Total.....	27	1	5	4	3	2	3	2	1	5	3	4
	Males.....	23	2	2	2	1	2	2	1	4
	Females.....	15	1	3	2	1	1	1	1	3	1
Antrim.....	Total.....	46	6	6	3	1	6	2	5	5	1	3	5
	Males.....	26	5	4	1	1	3	2	1	2	1	2	2	.....
	Females.....	20	1	2	1	.....	3	.....	4	3	.....	.....	3	.....
Barry.....	Total.....	443	26	21	36	38	36	26	38	46	41	49	49	.....
	Males.....	316	14	8	20	16	13	13	20	21	18	23	27	.....
	Females.....	225	12	13	16	22	23	14	18	24	23	26	17	.....
Bay.....	Unknown.....	2	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
	Total.....	466	47	39	35	38	38	30	43	24	39	36	30	.....
	Males.....	293	23	17	17	15	22	14	27	14	24	18	18	.....
Benzie.....	Total.....	212	24	21	18	17	16	16	16	10	15	18	11	.....
	Males.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Berrien.....	Total.....	67	8	8	4	8	5	4	6	7	5	3	1	.....
	Males.....	33	8	1	1	4	2	2	4	2	3	.....	.....	.....
	Females.....	34	5	2	3	4	3	2	2	5	2	1	1	.....
Berrien.....	Total.....	559	40	25	49	41	51	33	35	56	50	65	51	.....
	Males.....	292	16	10	30	28	30	23	23	30	14	27	26	.....
	Females.....	266	24	15	19	13	21	16	12	26	35	38	25	.....
.....	Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

* No returns from township of Bangor.

* No returns from township of Inland.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	Year 1871.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Branch	Total	413	24	28	25	33	31	19	29	54	46	36	38	49
	Males	225	13	21	12	18	15	7	16	32	21	24	24	21
	Females	188	11	7	13	15	16	12	13	22	25	12	14	28
Calhoun	Total	700	40	47	52	53	53	53	75	67	63	63	63	61
	Males	371	22	16	20	23	34	30	40	86	38	34	31	37
	Females	327	18	31	22	30	19	23	34	30	25	34	37	24
	Unknown	2	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Cass	Total	341	13	28	32	21	21	26	22	42	20	42	31	29
	Males	168	11	13	13	13	11	11	11	23	18	16	14	14
	Females	171	7	15	19	8	10	15	11	13	10	26	17	15
	Unknown	2	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....
Charlevoix	Total	53	1	2	3	4	4	3	6	6	6	1	7	10
	Males	22	1	2	2	3	2	1	4	3	1	3
	Females	31	2	1	2	1	1	5	2	3	1	6	7

BIRTHS BY COUNTIES.

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Cheboygan.....	Total.....	48	7	8	1	2	2	2	5	10	1	7
	Males.....	26	3	6	1	1	3	2	6	2
	Females.....	22	4	2	1	1	1	4	1	5
Chippewa ^c	Total.....	25	4	2	7	4	1	1	2
	Males.....	13	1	2	4	2	.....	.....	1	.....	.....	.....	.....
	Females.....	12	3	.....	3	2	1	.....	.....	.....	2	.....	.....
Clare ^d	Total.....	25	3	2	2	1	1	3	.....	.....	4	6	.....
	Males.....	16	1	2	.....	1	.....	2	2	.....	4	8	.....
	Females.....	9	2	.....	2	.....	1	1	.....	.....	.....	8	.....
Clinton.....	Total.....	559	32	36	42	46	62	40	55	43	57	40	.....
	Males.....	279	14	15	23	23	31	15	27	20	33	22	.....
	Females.....	278	18	20	20	23	31	25	28	23	24	17	.....
Delta ^e	Unknown	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
	Total.....	93	10	6	5	7	8	8	5	9	11	10	.....
	Males.....	50	6	3	1	5	5	2	5	4	6	8	.....
Eaton.....	Females.....	43	4	3	4	2	3	6	.....	5	5	2	.....
	Total.....	503	36	33	37	42	24	40	44	59	36	53	1
	Males.....	277	22	23	14	17	12	23	26	31	23	32	1
	Females.....	226	14	15	23	25	12	12	18	28	13	21	.....

^a No returns from township of LaGrange.
^b No returns from townships of Evangeline and Norwood.
^c No returns from township of Sugar Island.
^d No returns from townships of Surrey and Winfield.
^e No returns from townships of Fairbanks and Masonville.

FIFTH REGISTRATION REPORT.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	YEAR 1871.	MONTHS.														
			January.	Fe bruary.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.		
Emmet.....	Total.....	46	6	2	8	8	8	5	5	2	2	2	3	3	8	4	.....
	Males.....	28	2	2	8	1	1	4	2	1	1	3	3	3	8	.....	.....
	Females..	28	4	.....	5	2	2	1	3	1	.....	.....	.....	.....	.....	4	.....
Genesee.....	Total.....	577	88	20	86	43	55	52	52	69	52	52	53	59	53	53	.....
	Males.....	285	20	9	18	24	27	29	26	29	25	25	26	26	26	26	.....
	Females..	292	18	11	18	19	28	28	26	40	27	27	27	27	28	27	.....
Grand Traverse.....	Total.....	113	6	9	7	10	11	9	7	8	8	8	12	6	18	1	.....
	Males.....	58	4	5	8	4	6	5	2	5	3	3	6	3	7	.....	.....
	Females..	59	2	4	4	6	5	4	5	3	5	5	6	3	11	1	.....
Gratiot.....	Total.....	265	11	15	24	14	10	19	19	26	24	24	23	20	20	20	.....
	Males.....	184	6	5	14	5	7	5	8	26	21	21	11	9	17	.....	.....
	Females..	181	5	10	10	9	8	14	11	10	18	18	22	11	18	.....	.....
Hilldale.....	Total.....	575	81	40	41	37	45	34	48	61	54	49	49	29	75	1	.....
	Males.....	286	19	21	19	18	17	18	28	29	27	23	23	27	40
	Females..	289	12	19	22	19	28	16	20	32	27	26	26	32	35	1

BIRTHS BY COUNTIES.

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Houghton ^a	Total.....	899	7	16	24	27	29	61	88	41	29	85	37	57
	Males.....	907	9	9	18	10	15	88	22	16	13	19	19	81
	Females.....	193	5	7	6	17	13	28	16	25	15	16	18	26	.....
Huron ^b	Total.....	281	21	17	25	24	34	14	28	27	21	27	31	17	.....
	Males.....	146	13	7	14	10	12	11	11	15	11	14	20	8	.....
	Females.....	135	8	10	11	14	22	8	12	12	10	13	11	9	.....
Ingham ^c	Total.....	567	84	37	42	43	48	49	44	59	77	51	47	41	.....
	Males.....	285	20	16	22	17	20	18	21	37	37	28	26	23	.....
	Females.....	282	14	21	20	26	28	31	23	22	40	23	21	18	.....
Ionia ^d	Total.....	1385	37	36	45	34	47	39	62	55	51	41	43	46	.....
	Males.....	233	21	19	27	23	25	25	31	26	19	19	21	27	.....
	Females.....	249	16	17	18	11	20	14	31	29	32	22	21	18	.....
Iosco.....	Unknown.....	3	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	1	.....
	Total.....	55	3	5	3	4	8	6	5	5	4	5	4	3	.....
	Males.....	31	3	3	3	3	4	4	1	4	2	3	.....	1	.....
Isabella ^e	Females.....	24	.....	2	.....	1	4	2	4	1	2	2	4	2	.....
	Total.....	139	9	18	16	10	7	6	19	15	11	16	6	11	.....
	Males.....	69	6	6	10	2	5	2	10	9	4	5	3	7	.....
	Females.....	70	3	7	6	8	2	4	9	6	7	11	3	4	.....

^a No returns from townships of Hancock and Portage.
^b No returns from township of White Rock.
^c No returns from township of Onondaga.
^d No returns from township of Otisco.
^e No returns from township of Sherman.

FIFTH REGISTRATION REPORT.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	YEAR 1871.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Jackson.....	Total.....	686	41	44	55	44	55	59	55	81	67	58	65	62
	Males.....	364	26	21	25	21	32	26	32	45	39	27	40	30
	Females.....	321	15	23	30	23	23	32	23	36	28	31	25	32
	Unknown.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Kalamazoo.....	Total.....	519	35	38	38	39	44	39	47	59	43	44	41	52
	Males.....	292	15	22	23	19	24	27	29	33	20	20	29	31
	Females.....	225	20	15	15	20	20	12	18	26	23	23	13	21
	Unknown.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Kalamazoo.....	Total.....	28	4	.....	9	1	2	.....	2	5	1	1	.....	8
	Males.....	16	2	.....	6	.....	1	.....	1	3	1	1	.....	1
	Females.....	12	2	.....	3	1	1	.....	1	2	.....	.....	.....	2
	Unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kent.....	Total.....	1,025	66	64	70	64	62	70	98	95	100	98	112	123
	Males.....	546	28	26	29	41	30	33	49	47	58	55	60	67
	Females.....	475	38	38	41	23	32	37	49	48	42	43	52	56
	Unknown.....	4	1	1	2

BIRTHS BY COUNTIES.

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Keweenaw ^a	46	1	4	1	4	5	4	2	7	5	5	4	4	4
{ Total.....	23	---	2	---	2	4	---	1	5	3	1	3	2	---
{ Males.....	23	1	2	1	2	1	4	1	2	2	4	1	2	---
{ Females.....	469	23	29	28	31	39	32	48	45	50	54	43	47	---
Lapeer.....	241	11	11	17	15	21	14	26	23	26	31	23	23	---
{ Total.....	228	12	18	11	16	18	18	22	22	24	23	20	24	---
{ Males.....	137	12	9	13	16	12	8	9	11	14	10	9	14	---
{ Females.....	73	9	1	8	7	7	3	7	5	8	7	4	7	---
Leelanaw.....	64	3	8	5	9	5	5	2	6	6	3	5	7	---
{ Total.....	753	29	50	44	44	61	61	77	80	86	60	80	81	---
{ Males.....	495	17	23	25	31	25	42	42	43	50	30	51	46	---
{ Females.....	356	13	27	19	13	36	19	35	37	35	30	28	35	---
Unknown.....	2	---	---	---	---	---	---	---	---	1	---	1	---	---
Livingston.....	324	21	17	16	23	22	23	80	41	35	33	24	39	---
{ Total.....	184	14	14	8	12	10	11	13	25	20	22	12	23	---
{ Males.....	139	7	2	8	11	12	12	17	16	15	11	12	16	---
{ Females.....	1	---	1	---	---	---	---	---	---	---	---	---	---	---
Mackinac ^a	---	---	---	---	---	---	---	---	---	---	---	---	---	---

^a No returns.

FIFTH REGISTRATION REPORT.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	Year 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Macomb.....	Total.....	682	87	47	68	53	59	46	47	60	62	60	43	52	3
	Males.....	317	20	23	24	33	25	24	24	30	26	30	22	24	2
	Females.....	312	17	23	29	26	21	23	28	30	36	29	20	28	1
	Unknown.....	3	—	1	—	—	—	—	—	—	—	1	1	—	—
Manistee.....	Total.....	149	9	5	7	12	13	18	12	12	10	23	12	20	1
	Males.....	72	4	2	5	5	12	4	4	3	5	9	7	12	—
	Females.....	73	5	3	2	7	1	8	8	8	5	13	5	8	—
	Unknown.....	4	—	—	—	—	—	1	—	1	—	1	—	—	1
Manitou.....	Total.....	5	—	—	1	—	—	1	—	—	—	—	1	2	—
	Males.....	3	—	—	—	—	—	1	—	—	—	—	1	1	—
	Females.....	2	—	—	1	—	—	—	—	—	—	—	—	—	—
	Unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marquette.....	Total.....	624	55	43	62	43	53	36	37	33	43	55	52	37	—
	Males.....	343	31	23	39	29	32	21	13	24	23	32	33	45	—
	Females.....	276	24	25	23	19	26	15	19	14	26	23	20	49	—
	Unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—

BIRTHS BY COUNTIES.

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Mason ^b	Total	68	2	4	4	9	5	4	6	2	9	6	4	7
	Males	81	3	2	2	7	1	1	1	3	4	3	4
	Females	80	2	2	2	3	3	5	1	6	2	1	3
	Unknown	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....
Mecosta ^c	Total	150	6	8	15	14	11	11	18	8	19	18	8	15	4
	Males	75	4	5	4	7	5	3	8	3	12	9	4	9	2
	Females	75	2	3	11	7	6	8	10	5	7	4	4	6	2
	Unknown	5	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	1	.....
Menominee ^d	Total	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males	4	.....	.....	.....	.....	.....	1	.....	1	.....	.....	1	1	.....
	Females	92	6	8	5	10	11	5	11	8	7	7	8	6	.....
	Unknown	52	2	4	2	5	7	2	6	5	3	5	6	5	.....
Midland ^e	Total	40	4	4	8	5	4	3	5	3	4	2	2	1	.....
	Males	6	.....	1	1	.....	.....	1	.....	.....	1	1	.....	1	.....
	Females	4	.....	.....	1	.....	.....	.....	.....	.....	1	1	.....	1	.....
	Unknown	2	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Missaukee	Total	618	35	54	43	54	50	37	46	63	55	57	54	68	.....
	Males	319	22	26	15	27	28	21	21	27	28	35	32	34	.....
	Females	293	13	23	24	27	22	16	24	36	30	22	22	34	.....
	Unknown	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....

^a No returns from township of Montilla.
^b No returns from townships of Hamlin and Pere Marquette.
^c No returns from township of Mecosta.
^d No returns from township of Menominee.
^e No returns from townships of Gladwin, Grant, and Jasper.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	SEX.	Year 1871.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Montcalm ^a	Total.....	818	20	19	81	27	28	22	23	81	88	88	27	83
	Males.....	184	10	11	11	18	17	11	12	14	23	28	12	17
	Females.....	129	10	8	20	9	6	11	11	4	10	10	15	15
Muskegon ^b	Total.....	342	21	23	25	37	27	17	31	23	32	29	35	37
	Males.....	167	11	16	10	14	17	7	14	8	14	12	23	21
	Females.....	175	10	12	15	23	10	10	17	15	18	17	12	16
Newaygo ^c	Total.....	135	8	6	6	11	9	9	21	13	8	19	17	10
	Males.....	68	1	4	4	7	4	5	10	9	2	9	10	8
	Females.....	65	2	4	2	4	5	4	10	4	6	10	6	7
Oakland.....	Unknown.....	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....
	Total.....	564	42	46	36	46	43	46	42	61	45	53	54	45
	Males.....	287	24	21	22	18	23	23	20	29	22	31	31	23
	Females.....	277	18	25	14	28	20	23	22	32	23	22	23	22

BIRTHS BY COUNTIES.

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Oceana.....	Total....	181	13	10	18	15	8	14	19	22	13	17	14	18
	Males....	95	9	3	10	8	3	6	11	11	8	9	7	10
	Females..	85	4	7	7	7	5	8	8	11	5	8	7	8
	Unknown..	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ontonagon.....	Total....	75	6	7	6	6	5	4	4	5	7	10	10	5	.....
	Males....	41	4	4	3	3	2	4	3	2	2	6	3	5	.....
	Females..	34	2	3	3	3	3	.....	1	3	5	4	7	.....	.....
	Total....	95	10	8	8	2	8	11	11	5	3	9	10	9	1
Oscoda.....	Males....	52	6	5	4	.....	4	7	7	2	2	6	4	5	.....
	Females..	42	4	3	4	2	4	4	4	3	1	3	6	3	1
	Unknown..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
	Total....	707	49	40	39	63	45	42	74	56	76	73	59	85	1
Ottawa.....	Males....	351	21	15	20	34	24	22	33	27	42	36	36	36	.....
	Females..	346	24	25	18	33	21	19	36	29	34	35	22	49	1
	Unknown..	10	4	.....	1	1	.....	1	.....	.....	.....	2	1	.....	.....
	Total....	10	2	1	1	.....	.....	.....	.....	4	.....	1	1	.....	.....
Presque Isle.....	Males....	4	.....	1	.....	.....	.....	.....	.....	2	.....	.....	1	.....	.....
	Females..	6	2	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
	Total....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

c No returns from townships of Bridgeton and Deaver.

a No returns from townships of Ferris and Home.
b No returns from township of Eggleston and first ward of Muskegon city.

FIFTH REGISTRATION REPORT.

TABLE IV.—CONTINUED.—Births in Michigan by Counties, by Months, and by Sex.

COUNTIES.	Sex.	Year 1871.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Saginaw ^a .	Total.....	1,024	64	68	90	72	87	77	85	105	95	96	77	110
	Males.....	580	87	84	45	36	49	48	48	50	46	47	80	59
	Females.....	498	27	28	45	86	88	29	87	55	49	49	47	51
	Unknown.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sanilac ^b .	Total.....	827	21	28	80	16	29	23	28	48	88	29	24	28
	Males.....	175	14	14	20	5	15	10	14	27	20	15	11	10
	Females.....	149	7	9	10	11	18	18	18	16	18	18	18	18
	Unknown.....	8	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....
Schoolcraft ^c .	Total.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Males.....	460	86	20	29	81	82	42	87	52	50	47	48	86
	Females.....	228	18	10	15	18	18	27	14	24	82	20	25	17
	Unknown.....	281	18	10	14	18	19	14	28	28	18	27	28	19
Shiawassee.	Total.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	Males.....	945	49	68	98	66	68	79	70	92	106	88	87	95
	Females.....	501	27	87	45	86	81	46	88	58	49	54	46	46
	Unknown.....	448	28	96	87	80	87	88	87	46	57	84	41	49
St. Clair.....	Unknown.....	1	1

BIRTHS BY COUNTIES.

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St. Joseph.....	Total.....	417	49	28	25	25	21	27	26	51	49	25	33
	Males.....	216	20	15	19	18	16	11	14	27	20	20	17
	Females.....	201	29	13	18	17	15	16	12	24	20	8	16	.....
	Total.....	282	27	20	36	22	40	21	26	23	27	19	27	.....
Tuscola.....	Males.....	182	20	12	17	11	19	10	13	19	13	8	21	.....
	Females.....	170	7	8	19	11	21	11	23	14	15	11	16	.....
	Total.....	292	39	35	52	39	47	46	61	61	51	52	56	1
	Males.....	233	20	21	26	20	24	24	25	32	21	28	23	1
Van Buren.....	Females.....	297	19	14	26	18	23	22	36	28	30	24	33	.....
	Unknown.....	2	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
	Total.....	739	48	39	45	55	68	51	43	65	91	72	79	2
	Males.....	392	27	21	23	28	38	22	24	32	50	38	45	.....
Washtenaw.....	Females.....	334	20	18	22	27	26	27	19	33	40	34	32	2
	Unknown.....	6	1	.....	.....	.....	2	2	.....	.....	1	.....	.....	.....
	Total.....	3,799	314	266	294	243	279	277	293	350	337	370	365	84
	Males.....	2,025	169	149	150	125	145	145	161	180	173	207	196	15
Wayne ^d	Females.....	1,768	145	117	144	123	134	131	131	169	158	162	169	17
	Unknown.....	6	.....	.....	.....	.....	.....	1	1	1	.....	1	.....	2
	Total.....	13	.....	.....	1	1	.....	1	2	2	1	2	3	.....
	Males.....	6	.....	.....	.....	1	.....	1	2	.....	.....	1	1	.....
Wexford ^e	Females.....	7	.....	.....	1	.....	.....	.....	.....	2	1	1	2	.....

^d No returns from township of St. Charles.
^e No returns from townships of Delaware, Elmer, and Moore.
^f No returns from townships of Colfax and Henderson.

^a No returns from townships of Brownstown, Monguagon, Taylor, and Van Buren.
^b No returns from townships of Colfax and Henderson.

From Table IV. it will be seen that what has been noticed as regards the total number of births in the State is also true of the births in most of the counties, viz.: the much greater number returned for the last months in the year, especially noticeable by comparing those for December with those for January. If this did not appear differently when the births are collected at another season of the year, we might naturally conclude that there were really many more births in December than in January; but as has been pointed out in Exhibits A—D, and remarks relating thereto, the number returned in December is greater because the enumeration is more complete than for the first months in the year.

TABLE V.—*Exhibiting, by Color and by Sex, the Population of Michigan, June 1st, 1870, the Number of Children born in the State during the Year 1871, the Per Cent. of Children born in 1871 to Population in 1870, the Number of Women aged 18 to 45, the Per Cent. of Births to Women at such child-bearing ages, the Per Cent. of Children of each Sex to the Total Number born of both Sexes, and the Number of Inhabitants to each Child born of the same Color. (Still-births included.)*

COLOR OR RACE.	SEX.	Population June 1st, 1870, represented by births 1871.	Children born in 1871.	Per cent. of children to inhabitants.	Women, June 1, 1870, aged 18 and under 45 years. ^a	Per cent. of children to women aged 18 to 45. ^b	Per cent. of each sex to children of both sexes.	No. of inhabitants to one child born of the same color.
All Colors.....	Total	1,147,284	25,992	2.265	.....	11.272	.....	44.13
	Males.....	597,765	13,596	2.274	.....	.....	52.44	.....
	Females..	549,466	12,327	2.243	230,590	.....	47.55	.....
	Unknown .....	.....	69	.....	.....	.....	.....	.....
White.....	Total.....	1,131,430	25,559	2.258	.....	11.243	.....	44.26
	Males.....	589,550	13,390	2.277	.....	.....	52.49	.....
	Females..	541,880	12,115	2.235	227,331	.....	47.50	.....
	Unknown .....	.....	54	.....	.....	.....	.....	.....
Black	Total	5,359	186	3.470	.....	.....	.....	28.81
	Males.....	2,966	94	3.169	.....	.....	50.81	.....
	Females..	2,393	91	3.802	.....	.....	49.18	.....
	Unknown .....	.....	1	.....	.....	.....	.....	.....

^a No. ascertained from U. S. Census of 1870, Vital Statistics Volume, pp. 560 to 666.

^b See page 33 of this Report.

TABLE V.—CONTINUED.

COLOR, OR RACE.	SEX.	Population June 1st, 1870, repre- sented by births 1871.	Children born in 1871.	Per cent. of chil- dren to inhab- itants.	Women, June 1, 1870, aged 18 and under 45 years. ^a	Per cent. of chil- dren to women aged 18 to 45. ^b	Per cent. of each sex to children of both sexes.	No. of inhabitants to one child born of the same color.
Mulatto	Total	6,145	33	.537				186.21
	Males	3,106	20	.643			62.50	
	Females	3,039	12	.394			37.50	
	Unknown		1					
Indians	Total	4,300	135	3.139		14.469		31.35
	Males	2,146	64	2.982			47.40	
	Females	2,154	71	3.296	933		52.59	
Unknown colors	Total		79					
	Males		28					
	Females		38					
	Unknown		13					
Black and Mu- latto c.	Total	11,504	219	1.908		9.415		52.52
	Males	6,072	114	1.877			52.53	
	Females	5,432	103	1.896	2,326		47.46	
	Unknown		2					

^a No. ascertained from U. S. Census of 1870, Vital Statistics Volume, pages 560 to 666.

^b See page 33 of this Report.

^c Includes all of African descent.

In Table V., for the purpose of obtaining the birth-rate of each race or color, the population June 1, 1870, is used, as it was in the last Report. In this table the study has been carried further than in the Report for 1870, and the evidence seems to be similar, namely: that the birth-rate of Indians is greater, and of persons of African descent it is less than among the white inhabitants, the per cent. of children to inhabitants being as follows:

For the aggregate of all colors it is..... 2.265
 For the white race it is..... 2.258
 For the Indians it is..... 3.139
 For the African race it is..... 1.903

For the purpose of ascertaining whether or not this differ-

ence was due to a greater proportion of women at child-bearing ages among Indians and a less proportion among Africans than among the white inhabitants, two columns have been added to the table, giving the number of such women in Michigan and the per cent. of children to women at such ages. For facility of comparison, the per cent. may be re-arranged and stated as follows :

For all women the per cent. is.....	11.272
For the white women it is.....	11.243
For the Indian women it is.....	14.469
For the African women it is.....	9.415

In computing the per cent. of children to total inhabitants, only the population of counties and townships represented by returns of births was employed, and, as in computing the columns of per cent. of children to women aged 18 to 45 all such women in the State were necessarily counted, there is still a chance that in the localities from which no returns of births were returned, more than an average proportion of inhabitants of some one color were unrepresented. As bearing upon this subject, the relation of women in Michigan aged 18 to 45 to the females at all ages, has been computed for each color or race, and for the aggregate of all colors, and found to be as follows :

For all colors.....	40.74 per cent.
For the White race.....	40.72 per cent.
For the Indians.....	38.54 per cent.
For the Africans.....	41.12 per cent.

In order to render the evidence as perfect as possible, the whole number of females in the counties and townships not represented by returns of births has been ascertained, and the probable number of women aged 18 to 45 in such counties and townships has been found by the above series of proportions per cent. Subtracting the number so found from the whole number in the State exhibited in the fourth column of Table

V., and again computing the per cent. of children to women of child-bearing ages, the result is as follows:

Per cent. of all children to all women aged 18 to 45...	11.612
Per cent. of White children to White women aged 18 to 45	11.579
Per cent. of Indian children to Indian women aged 18 to 45.....	16.091
Per cent. of African children to African women aged 18 to 45	9.626

From the best evidence attainable, it thus appears that in a given number of women of each race, many more children were born to Indian women than to white women, and a less number of children were born to women of African descent than to white women.

In Table V., in last Report, it appeared that the proportion of female or male children born, bore a certain relation to the large or small birth-rate,—that while the birth-rate among Indians was large there was also a larger proportion of female children than among the white inhabitants, and the reverse was true of the African race. This statement is true of the children born in 1871, as appears by the last column but one in Table V. This furnishes additional proof of the truth of the proposition, which it is believed was first broached in the Vital Statistics of Michigan, 1870, that an unusually large birth-rate is attended with a greater than average proportion of female children, while a diminished birth-rate is attended with a greater than average proportion of male children.

TABLE VI.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Population June 1st, 1870, the Per Cent. of Births in 1871 to Population in 1870, the Number of Males to 100 Females born during the Year 1871, and by Sex and Color the Number of Children born during the Year ending December 31, 1871. (Stillbirths included.)*

STATE AND COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to popula- tion of same sex.	COLOR.					
						Total of all colors.	White.	Black.	Mulatto.	Indian.	Unknown.
State ^a	110	Total .....	.....	1,147,234	2.26	25,992	25,559	186	33	135	79
		Males.....	52.44	597,768	2.27	13,596	13,390	^b 94	20	^c 64	28
		Females ..	47.55	549,466	2.24	12,327	12,115	^e 91	12	^f 71	38
		Unknown ..	.....	.....	.....	69	54	^d 1	1	.....	13
Alcona	223	Total	100.00	^g 766	3.00	23	23	.....	.....	.....	.....
		Males.....	69.56	441	3.62	16	16	.....	.....	.....	.....
		Females ..	30.43	325	2.15	7	7	.....	.....	.....	.....
Allegan	98	Total .....	.....	32,105	1.93	621	601	16	.....	4	.....
		Males.....	49.51	17,000	1.80	307	297	^h 8	.....	2	.....
		Females ..	50.48	15,105	2.07	313	303	ⁱ 8	.....	2	.....
		Unknown ..	.....	.....	.....	1	1	.....	.....	.....	.....
Alpena.....	146	Total	100.00	2,756	1.34	37	37	.....	.....	.....	.....
		Males.....	59.45	1,719	1.27	22	22	.....	.....	.....	.....
		Females ..	40.54	1,037	1.44	15	15	.....	.....	.....	.....
Antrim.....	130	Total	100.00	1,985	2.31	46	43	.....	.....	3	.....
		Males.....	56.52	1,118	2.32	26	25	.....	.....	1	.....
		Females ..	43.47	867	2.30	20	18	.....	.....	2	.....
Barry.....	96	Total .....	.....	22,200	1.99	443	442	.....	.....	1	.....
		Males.....	48.97	11,646	1.85	216	216	.....	.....	.....	.....
		Females ..	51.02	10,554	2.13	225	224	.....	.....	^j 1	.....
		Unknown ..	.....	.....	.....	2	2	.....	.....	.....	.....

^a For townships from which no returns of births were received see Table No. IV., of Births by Months; also Table XXI. ^b Includes "African," 3; "Negro," 7; and "Colored," 62. ^c Includes "African," 4; "Negro," 4; and "Colored," 54. ^d Includes "African," 1. ^e Includes "White and Indian," 1; "½ White," 1; "¾ White," 1; "Half-breed," 1; "Half," 1; and "Copper Colored," 8. ^f Includes "White and Indian," 2; "¾ White," 1; and "Half," 5. ^g Includes population of Oscoda County. ^h "Colored," 8. ⁱ "Colored," 6. ^j "White and Indian," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Bay.....	118	Total .....	.....	12,294	3.79	466	468	1	..	7
		Males.....	54.31	6,876	3.66	252	249	* 1	..	2
		Females ..	45.68	5,418	3.91	212	207	..	..	5
		Unknown ..	.....	.....	.....	2	2	..	..	..
Benzie.....	97	Total	100.00	1,980	3.38	67	66	1	..	..
		Males.....	49.25	1,061	3.11	33	33	..	..	..
		Females ..	50.74	919	3.69	34	33	b 1	..	..
Berrien	109	Total .....	.....	35,104	1.59	559	552	4	1	1
		Males.....	52.32	18,063	1.61	292	289	2	..	1
		Females ..	47.67	17,041	1.56	266	263	2	1	..
		Unknown ..	.....	.....	.....	1	..	..	..	4
Branch.....	119	Total	100.00	26,227	1.57	413	413	..	..	..
		Males.....	54.47	13,245	1.69	225	225	..	..	..
		Females ..	45.52	12,979	1.44	188	188	..	..	..
Calhoun.....	113	Total .....	.....	36,571	1.91	700	682	10	5	3
		Males.....	53.15	18,550	2.00	371	360	5	3	* 3
		Females ..	46.84	18,021	1.81	327	320	5	2	..
		Unknown ..	.....	.....	.....	2	2	..	..	..
Cass.....	98	Total .....	.....	19,211	1.77	341	310	13	12	1
		Males.....	49.55	9,983	1.69	163	153	d 8	6	1
		Females ..	50.44	9,228	1.84	171	156	* 10	5	..
		Unknown ..	.....	.....	.....	2	1	..	1	..
Charlevoix...	70	Total	100.00	1,452	3.65	53	52	1	..	..
		Males.....	41.50	797	2.76	22	21	1	..	..
		Females ..	58.49	655	4.73	31	31	..	..	..
Cheboygan...	118	Total .....	.....	2,197	2.18	48	45	..	..	3
		Males.....	54.16	1,235	2.10	26	24	..	..	2
		Females ..	45.83	962	2.39	22	21	..	..	1

* "African," 1. b "Colored," 1. c "Copper Colored," 3. d "Colored," 4;
 "Negro," 2. e "Colored," 6; "Negro," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Chippewa.....	108	Total	-----	1,452	1.72	25	19	-----	-----	6
		Males.....	52.00	797	1.63	13	10	-----	-----	a 3
		Females ..	48.00	655	1.83	12	9	-----	-----	a 3
Clare.....	177	Total	-----	366	6.83	25	25	-----	-----	-----
		Males.....	64.00	285	5.61	16	16	-----	-----	-----
		Females ..	36.00	81	11.11	9	9	-----	-----	-----
Clinton.....	100	Total	-----	22,851	2.44	559	557	1	-----	1
		Males.....	50.08	11,813	2.36	279	278	1	-----	-----
		Females ..	49.91	11,038	2.51	278	278	-----	-----	-----
		Unknown ..	-----	-----	-----	2	1	-----	-----	1
Delta	116	Total	100.00	1,456	6.38	93	91	1	-----	1
		Males.....	53.76	837	5.97	50	49	-----	-----	c 1
		Females ..	46.23	619	6.94	43	42	b 1	-----	-----
Eaton.....	119	Total	100.00	25,163	2.01	508	508	-----	-----	-----
		Males.....	54.52	12,949	2.13	277	277	-----	-----	-----
		Females ..	45.47	12,214	1.89	231	231	-----	-----	-----
Emmet	100	Total	100.00	1,211	3.79	46	7	-----	-----	89
		Males.....	50.00	629	3.65	23	4	-----	-----	d 19
		Females ..	50.00	582	3.95	23	3	-----	-----	e 20
Genesee.....	97	Total	100.00	33,895	1.70	577	575	2	-----	-----
		Males.....	49.39	17,449	1.63	285	284	b 1	-----	-----
		Females ..	50.60	16,446	1.77	292	291	1	-----	-----
Gr. Traverse.	89	Total	100.00	4,443	2.52	112	112	-----	-----	-----
		Males.....	47.82	2,330	2.21	53	53	-----	-----	-----
		Females ..	52.67	2,054	2.67	59	59	-----	-----	-----
Gratiot	102	Total	100.00	11,808	2.24	265	265	-----	-----	-----
		Males.....	50.56	6,189	2.16	134	134	-----	-----	-----
		Females ..	49.43	5,619	2.33	131	131	-----	-----	-----

a "White and Indian," 3. b "Colored," 1. c "Half-breed," 1. d " $\frac{3}{8}$ White," 1; " $\frac{1}{8}$ White," 1. e " $\frac{1}{8}$ White," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Hillsdale.....	98	Total	100.00	81,688	1.81	575	574	1	..	..
		Males.....	49.78	16,104	1.77	286	286	..	..	..
		Females..	50.26	15,584	1.85	289	288	1	..	..
Houghton.....	107	Total	100.00	9,640	4.13	399	381	..	..	18
		Males.....	51.88	5,827	3.88	207	201	..	..	b 6
		Females..	48.12	4,313	4.45	192	180	..	..	c 12
Harro.....	108	Total	100.00	8,778	3.20	281	281	..	..	..
		Males.....	51.95	4,894	2.95	146	146	..	..	..
		Females..	48.04	3,884	3.47	135	135	..	..	..
Ingham.....	101	Total	100.00	24,041	2.35	567	565	..	2	..
		Males.....	50.26	12,466	2.28	285	284	..	1	..
		Females..	49.73	11,575	2.43	282	281	..	1	..
Ionia.....	113	Total ....	..	26,105	2.04	535	534	1	..	..
		Males.....	53.19	13,653	2.07	283	282	1	..	..
		Females..	46.80	12,452	1.99	249	249	..	..	..
		Unknown	..	..	..	3	3	..	..	..
Iosco.....	129	Total	100.00	d 3,175	1.73	55	55	..	..	..
		Males.....	56.36	1,918	1.62	31	31	..	..	..
		Females..	43.63	1,262	1.90	24	24	..	..	..
Isabella.....	98	Total	100.00	3,979	3.49	139	126	2	..	10 1
		Males.....	49.64	2,128	3.24	69	65	a 1	..	2 1
		Females..	50.35	1,851	3.79	70	61	a 1	..	8 ..
Jackson.....	113	Total ....	..	36,040	1.90	686	684	2	..	..
		Males.....	53.13	19,056	1.91	364	364	..	..	..
		Females..	46.86	16,984	1.89	321	319	2	..	..
		Unknown	..	..	..	1	1	..	..	..
Kalamazoo ..	129	Total ....	..	32,065	1.61	519	509	10	..	..
		Males.....	56.47	16,522	1.76	292	290	d 2	..	..
		Females..	43.52	15,543	1.44	225	217	e 8	..	..
		Unknown	..	..	..	2	2	..	..	..

a "Colored," 1. b "Half," 2. c "Half," 5. d "Colored," 2. e "Colored," 7.

f Includes population of Ogemaw county.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Kalkaska	183	Total	100.00	424	6.60	28	28	—	—	—
		Males	57.14	244	6.50	16	16	—	—	—
		Females ..	42.85	180	6.66	12	12	—	—	—
Kent	114	Total	—	50,410	2.08	1,025	1,021	1	—	3
		Males	53.47	26,166	2.08	546	546	—	—	—
		Females ..	46.52	24,244	1.95	475	474	1	—	—
		Unknown ..	—	—	—	4	1	—	—	8
Lake	100	Total	100.00	548	8.39	46	46	—	—	—
		Males	50.00	305	7.54	23	23	—	—	—
		Females ..	50.00	248	9.46	23	23	—	—	—
Lapeer	105	Total	100.00	21,342	2.19	469	469	—	—	—
		Males	51.38	11,051	2.18	241	241	—	—	—
		Females ..	48.61	10,291	2.21	228	228	—	—	—
Leelanaw	114	Total	100.00	4,577	2.99	137	124	—	1	12
		Males	53.28	2,401	3.04	78	67	—	1	5
		Females ..	46.71	2,176	2.94	64	57	—	—	7
Lenawee	180	Total	—	45,601	1.65	753	737	3	8	10
		Males	56.59	22,916	1.85	425	417	1	3	4
		Females ..	43.40	22,685	1.43	326	319	* 2	—	5
		Unknown ..	—	—	—	2	1	—	—	1
Livingston	132	Total	—	19,335	1.67	324	322	1	—	1
		Males	56.96	10,072	1.82	184	188	—	—	1
		Females ..	43.08	9,263	1.50	139	138	1	—	—
		Unknown ..	—	—	—	1	1	—	—	—
Macomb	101	Total	—	27,619	2.28	632	631	1	—	—
		Males	50.39	14,096	2.24	317	316	1	—	—
		Females ..	49.60	13,523	2.30	312	312	—	—	—
		Unknown ..	—	—	—	3	3	—	—	—

* "Colored," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Manistee.....	98	Total	-----	5,945	2.50	149	144	1	..	4
		Males.....	49.65	3,384	2.12	72	71	1	..	..
		Females..	50.34	2,561	2.85	73	73	..	..	..
		Unknown	-----	-----	-----	4	-----	-----	-----	4
Manitou.....	150	Total	100.00	891	.56	5	5	..	..	..
		Males.....	60.00	488	.61	3	3	..	..	..
		Females..	40.00	403	.49	2	2	..	..	..
Marquette....	126	Total	100.00	14,278	4.37	624	620	..	2	2
		Males.....	55.76	8,485	4.10	348	346	..	1	1
		Females..	44.23	5,793	4.76	276	274	..	1	1
Mason.....	103	Total	-----	2,187	2.88	63	60	..	..	3
		Males.....	50.81	1,187	2.61	31	29	..	..	2
		Females..	49.18	1,000	3.00	30	29	..	..	1
		Unknown	-----	-----	-----	2	2	..	..	..
Mecosta.....	100	Total	100.00	5,882	2.78	150	150	..	..	..
		Males.....	50.00	2,918	2.57	75	75	..	..	..
		Females..	50.00	2,464	3.04	75	75	..	..	..
Menominee ..	25	Total	100.00	298	1.67	5	5	..	..	..
		Males.....	20.00	204	.49	1	1	..	..	..
		Females..	80.00	94	4.25	4	4	..	..	..
Midland	130	Total	100.00	3,028	3.04	92	92	..	..	..
		Males.....	56.52	1,649	3.75	52	52	..	..	..
		Females..	43.47	1,374	2.91	40	40	..	..	..
Missaukee....	200	Total	100.00	130	4.61	6	6	..	..	..
		Males.....	66.66	76	5.26	4	4	..	..	..
		Females..	33.33	54	3.70	2	2	..	..	..
Monroe	107	Total	-----	27,475	2.24	618	616	2	..	..
		Males.....	51.70	13,950	2.28	319	318	* 1	..	..
		Females..	48.29	13,525	2.20	298	297	* 1	..	..
		Unknown	-----	-----	-----	1	1	..	..	..

* "African," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	Sex.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Montcalm....	142	Total	100.00	12,974	2.41	818	811	1	1	..
		Males.....	58.78	6,915	2.66	184	182	a 1	1	..
		Females..	41.21	6,059	2.12	129	129	..	..	..
Muskegon....	95	Total	100.00	12,926	2.64	842	290	1	..	51
		Males.....	48.88	7,347	2.27	167	145	b 1	..	21
		Females..	51.16	5,579	3.13	175	145	..	..	30
Newaygo	104	Total ....	.....	6,118	2.20	135	134	..	..	1
		Males.....	51.12	3,273	2.07	63	67	..	..	1
		Females..	48.87	2,845	2.28	65	65	..	..	..
		Unknown	.....	.....	.....	2	2	..	..	..
Oakland.....	103	Total	100.00	40,906	1.37	564	559	5	..	..
		Males.....	50.38	21,185	1.35	237	234	c 3	..	..
		Females..	49.11	19,771	1.40	277	275	d 2	..	..
Oceana.....	111	Total ....	.....	7,222	2.50	181	169	2	..	10
		Males.....	52.77	3,948	2.40	95	89	..	..	6
		Females..	47.22	3,274	2.59	85	80	e 1	..	4
		Unknown	.....	.....	.....	1	..	e 1	..	..
Ontonagon...	120	Total	100.00	2,846	2.63	75	75	..	..	..
		Males.....	54.66	1,430	2.36	41	41	..	..	..
		Females..	45.33	1,416	2.40	34	34	..	..	..
Osceola.....	123	Total ....	.....	2,104	4.51	95	94	1	..	..
		Males.....	55.31	1,167	4.45	52	52	..	..	..
		Females..	44.68	937	4.48	42	41	1	..	..
		Unknown	.....	.....	.....	1	1	..	..	..
Ottawa.....	101	Total ....	.....	26,650	2.65	707	702	1	..	2
		Males.....	50.35	14,050	2.49	351	351	..	..	..
		Females..	49.64	12,600	2.74	346	343	1	..	2
		Unknown	.....	.....	.....	10	8	..	..	2

a "Colored," 1.

b "Negro," 1.

c "Colored," 3.

d "Colored," 2.

e "African," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Presque Isle...	66	Total	100.00	355	2.81	10	10	—	—	—
		Males	40.00	229	1.74	4	4	—	—	—
		Females ..	60.00	126	4.76	6	6	—	—	—
Saginaw.....	107	Total	—	37,913	2.70	1,024	1,016	8	—	5
		Males	51.80	20,421	2.59	530	525	a 1	—	4
		Females ..	48.19	17,492	2.81	493	490	a 2	—	1
		Unknown ..	—	—	—	1	1	—	—	—
Sanilac	117	Total	—	13,711	2.38	327	327	—	—	—
		Males	54.01	7,251	2.41	175	175	—	—	—
		Females ..	45.98	6,460	2.30	149	149	—	—	—
		Unknown ..	—	—	—	3	3	—	—	—
Shiawassee ..	98	Total	—	20,322	2.20	460	458	2	—	—
		Males	49.67	10,315	2.10	228	227	1	—	—
		Females ..	50.32	10,007	2.30	231	230	1	—	—
		Unknown ..	—	—	—	1	1	—	—	—
St. Clair.....	113	Total	—	36,759	2.57	945	945	—	—	—
		Males	53.07	19,011	2.63	501	501	—	—	—
		Females ..	46.92	17,748	2.49	443	443	—	—	—
		Unknown ..	—	—	—	1	1	—	—	—
St. Joseph ...	107	Total	100.00	26,272	1.53	417	416	1	—	—
		Males	51.79	13,480	1.60	216	216	—	—	—
		Females ..	48.20	12,792	1.57	201	200	a 1	—	—
Tuscola.....	107	Total	100.00	13,715	2.56	352	352	—	—	—
		Males	51.70	7,263	2.50	182	182	—	—	—
		Females ..	48.29	6,452	2.63	170	170	—	—	—
Van Buren....	98	Total	—	28,835	2.05	592	575	10	4	3
		Males	49.66	14,907	1.96	293	284	b 4	3	2
		Females ..	50.33	13,928	2.13	297	289	b 6	1	1
		Unknown ..	—	—	—	2	2	—	—	—

a "Colored," 1.

b "Colored," 3; "African," 1.

TABLE VI.—CONTINUED.—*Births by Counties, by Sex, and by Color, etc.*

COUNTIES.	Number of males to 100 females.	SEX.	Per cent. of births of each sex to total of both sexes.	Population June 1st, 1870, represented by births in 1871.	Per cent. of births of each sex to population of same sex.	COLOR.				
						Total of all colors.	White.	Black.	Mulatto.	Indian.
Washtenaw..	117	Total	-----	41,440	1.76	732	709	22	1	---
		Males....	53.99	21,478	1.82	392	378	^a 14	---	---
		Females ..	46.00	19,962	1.67	334	325	^b 8	1	---
		Unknown ..	-----	-----	-----	6	6	---	---	---
Wayne	114	Total	-----	112,719	3.37	3,799	3,786	57	1	5
		Males....	53.38	56,714	3.57	2,025	1,989	^c 34	1	1
		Females ..	46.61	56,005	3.15	1,768	1,742	^d 23	---	3
		Unknown ..	-----	-----	-----	6	5	---	---	1
Wexford.....	85	Total	100.00	478	2.71	13	13	---	---	---
		Males....	46.15	250	2.40	6	6	---	---	---
		Females ..	53.84	228	3.07	7	7	---	---	---

^a "Colored," 8. ^b "Colored," 5. ^c "Colored," 30; "Negro," 4. ^d "Colored," 19; "Negro," 8; "African," 1.

There is still opportunity for improvement in methods of returning the color of children born. The color should be stated as Black, Mulatto, Indian, White and Indian, etc., and not as African or Colored.

In certain classes of books and papers the statement is frequently seen that no variety of plants or animals, or race of human beings will thrive except through at least occasional infusion of new stock,—“new blood.” It has been alleged, though not proven, that the Caucasian race is dying out here in America, and is only kept up by results of foreign immigration. On the other hand, so far as relates to the human family, perhaps the prevailing sentiment of the people is in a contrary direction. There is a prejudice or feeling against the mingling in marriage of foreign and native inhabitants, and the laws of Michigan decree that “No white person shall intermarry with a negro.” The question of a change in public sentiment, or in the law, is not raised, and probably may not be soon; but if at any time in the future it shall be raised,

there seems no good evidence bearing upon the question, and unless evidence is collected its decision would necessarily be based only upon prejudice one way or the other. If there are important reasons why marriages of persons of different nationalities should be avoided or why intermarriage of different races should not be allowed, such facts ought to be known.

As returned heretofore, the statements of color of children seem to have been sufficient to work out, from Table V., one quite interesting fact, by a comparison of children of white persons, Indians, and persons of African descent; but there are other interesting questions which can only be answered by a comparison of children of pure blacks and of mulattoes with those of the white inhabitants. It is hoped that those who collect these statistics will soon attain to sufficient accuracy of statement to render such comparisons possible.

TABLE VII.—*Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children born in Michigan during the Year 1871.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS IN 1871.							
	NUMBER.				PER CENT. OF TOTAL.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....	25,992	13,596	12,327	69	100.00	100.00	100.00	100.00
Both parents native.....	11,374	5,848	5,512	14	43.75	43.01	44.71	20.28
Both parents foreign.....	8,734	4,680	4,029	25	33.60	34.42	32.67	36.23
Foreign father and native mother	2,109	1,143	964	2	8.11	8.40	7.82	2.89
Foreign mother and native father	1,217	608	606	3	4.68	4.47	4.91	4.34
Unknown mother, father native..	876	457	414	5	3.37	3.36	3.85	7.24
Unknown mother, father foreign..	719	404	314	1	2.76	2.97	2.54	1.44
Unknown father, mother native..	165	78	85	2	.63	.57	.68	2.69
Unknown father, mother foreign..	306	156	149	1	1.17	1.14	1.20	1.44
Both unknown.....	492	222	254	16	1.89	1.63	2.06	23.18
One or both native.....	15,741	8,134	7,581	26	60.56	59.82	61.49	37.63
One or both foreign.....	13,085	6,991	6,062	32	50.34	51.41	49.17	46.87

EXHIBIT F.—*Parent-Nativity of Children born in Michigan during the Years 1869, 1870, and 1871.*

NATIVITY OF PARENTS OF CHILDREN BORN.	BIRTHS, 1869.		BIRTHS, 1870.		BIRTHS, 1871.	
	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.
All Nativities.....	27,098	100.00	26,668	100.00	25,992	100.00
Both parents native.....	18,060	48.20	12,395	46.48	11,874	43.75
Both parents foreign.....	8,048	29.65	8,604	32.26	8,734	33.60
Fathers foreign, mothers native..	1,904	7.02	2,246	8.42	2,109	8.11
Mothers foreign, fathers native...	1,219	4.49	1,325	4.96	1,217	4.68
One or both unknown.....	2,867	10.58	2,098	7.84	2,558	9.84
One or both parents native ^a	16,188	59.73	15,966	59.88	14,700	56.55
One or both parents foreign ^a	11,166	41.21	12,175	45.66	12,060	46.39

^a Excluding cases where nativity of either parent is unknown.

The evidence of Exhibit F, taken by itself, would seem to indicate that the proportion of births of children of foreign parents is gradually increasing. Not much can be learned on this point immediately. One of the most important items of information wanted in this connection is a knowledge of the proportion of native and foreign-born inhabitants at the different ages during the several years under examination, in order to learn more especially whether the proportion of foreigners at reproductive ages is increasing, diminishing, or uniform.

EXHIBIT G.—Parent-Nativity of the Total Population and of the Native-born Inhabitants of Michigan, June 1st, 1870, including the Per Cent. of each Nativity to the Total of all Nativities.*

NATIVITY OF PARENTS.	TOTAL POPULATION JUNE 1, 1870.		NATIVE-BORN POPULATION JUNE 1, 1870.	
	Number.	Per cent. of total.	Number.	Per cent. of total.
All Nativities.....	1,184,059	100.00	916,049	100.00
Both parents native.....	695,900	58.77	695,900	75.96
Both parents foreign.....	416,886	35.16	^b 148,326	16.19
Fathers foreign and mothers native.....	43,201	3.64	^c 43,201	4.71
Mothers foreign and fathers native.....	28,622	2.41	^c 28,622	3.12
One or both parents native.....	767,723	64.83	767,723	83.80
One or both parents foreign.....	488,159	41.22	220,149	24.08

* The material for this table is taken from Table IV., Pop. Vol. U. S. Census, 1870.

^b Assuming that all foreign-born had both parents foreign, and subtracting the foreign-born,—268,010,—from the whole number having both parents foreign, this number results.

^c Assuming that all persons were native-born, either of whose parents was native.

NOTE.—The compiler sorely laments the fact that Exhibits B and C in last Report are incorrect, being so through a wrong interpretation of Table IV. in Pop. Vol. U. S. Census, 1870. Exhibit G may be relied on as a correct interpretation, it having been submitted to the examination of Gen'l Walker, Sup't of the U. S. Census.

Implicit confidence should not be placed in the evidence of Exhibit G. There are good reasons for believing that the statement of native parents is too large, while the statement of foreign parents is too small. The error is the result of an imperfect method of collecting the facts, and the nature of the imperfection and the manner in which it may be avoided in future censuses are indicated in the summary of "Statistics of Michigan, 1870," pages xlii-xliii. This exhibit is, however, the nearest approach to the truth which it is possible to have until another census is taken.

EXHIBIT II.—Parent-Nativity of Children born in Michigan during the Years 1870 and 1871,—Relation of Native and Foreign-born Parents to Native and Foreign-born Inhabitants.

NATIVITY OF PARENTS OF CHILDREN AND NATIVITY OF INHABITANTS.	NATIVE AND FOREIGN BORN POPU- LATION JUNE 1, 1870.			PARENTS OF CHILDREN BORN IN 1870 AND 1871.						
	Total.	Males.	Females.	Year.	NUMBER. ^a			PER CENT. OF PARENTS TO POPULAT'N OF SAME SEX AND NATIVITY.		
					Both par- ents.	Fathers.	Mothers.	Both par- ents.	Fathers.	Mothers.
All Nativities ^b	d 1,158,166	608,655	554,511	1870	52,682	26,816	26,816	4.54	4.86	4.75
Native ^c	d 904,740	463,422	441,318		27,972	13,531	14,441	3.09	2.92	3.27
Foreign ^c	d 253,426	140,233	113,193		20,532	10,721	9,811	8.10	7.65	8.67
All Nativities ^b	e 1,147,234	597,767	549,466	1871	51,376	25,688	25,688	4.48	4.30	4.63
Native ^c	e 894,202	457,914	436,388		25,778	12,447	13,331	2.88	2.72	3.06
Foreign ^c	e 253,032	139,854	113,178		20,554	10,719	9,835	8.12	7.66	8.67

^a As shown by number of children, after subtracting the proper number for twins and triplets.

^b Includes parents of unknown nativities.

^c Excluding cases where nativity of either parent is unknown.

^d Except of counties and townships not represented by births in 1870.

^e Except of counties and townships not represented by births in 1871.

It must not be concluded from the evidence in Exhibit H that the foreign-born inhabitants of Michigan are more prolific than the natives, for, although the conclusion may be right, the evidence in this exhibit is not necessarily in that direction. The foreign-born population includes a larger proportion at the reproductive ages, for two reasons, one being the much larger proportion of immigrants at such ages, and the other that all children born in this country, of both natives and foreigners are included in the native population. Exhibits I and J are intended to favor a closer study of this subject, dealing as they do with the parents of children and the native and foreign-born inhabitants of the State at child-bearing ages. Exhibits K and L are inserted for the purpose of showing that the evidence in Exhibit J may be slightly modified by the fact that the proportion of foreign-born inhabitants is greater at ages 20 to 45 and 25 to 45 than at ages 15 to 45. It is probable that a large proportion of the children are born of parents aged 25 to 45 years. This, however, cannot be positively learned, for the age of parents is not, as it should be, stated in the returns.

EXHIBIT I.—*Nativity of Inhabitants of Michigan June 1, 1870, aged 15 to 45 Years,—stating, by Sex, the number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.*

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 15 TO 45 YEARS. *					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes	Males.	Females.	Both sexes	Males.	Females.
All Nativities.....	555,352	289,085	266,267	100.00	100.00	100.00
Native-born.....	387,306	195,765	191,541	69.74	67.71	71.93
Foreign-born.....	168,046	93,320	74,726	30.25	32.28	28.06

* From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

EXHIBIT J.—By Sex, the Relation of Native and Foreign-Years 1869, 1870, and 1871 to the Native and Foreign-born—15 to 45 Years.

NATIVITY OF PARENTS OF CHILDREN BORN.	NUMBER OF PARENTS OF CHILDREN BORN IN 1869. ^a			Per Cent. of Parents of Children born in 1869 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.		
	Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.
All Nativities.....	58,580	26,790	26,790	9.65	9.27	10.06
Both parents native.....	25,772	12,886	12,886	^b 6.65	^c 6.58	^d 6.73
Both parents foreign.....	15,920	7,960	7,960	^a 9.47	^f 8.53	^g 10.65
Fathers foreign, mothers native.....	8,760	1,880	1,880	^f 4.03	^f 2.01	^d .98
Mothers foreign, fathers native.....	2,414	1,207	1,207	^g 3.23	^g 1.62	^c .62
One or both parents unknown.....	5,714	2,857	2,857	.....	.....	.....
One or both parents native ^h	31,946	15,973	15,973	^b 8.25	^c 8.16	^d 8.33
One or both parents foreign ^h	22,094	11,047	11,047	^e 13.15	^f 11.84	^g 14.78

^a As shown by children born, after subtracting the proper number for twins and triplets.

^b Per cent. to native-born inhabitants aged 15 to 45.

^c Per cent. to native-born males aged 15 to 45.

^d Per cent. to native-born females aged 15 to 45.

EXHIBIT K.—Nativity of Inhabitants of Michigan June 1, 1870, aged 20 to 45 Years,—Stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 20 TO 45 YEARS. ^a					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.
All Nativities.....	436,048	228,874	207,169	100.00	100.00	100.00
Native-born.....	289,004	146,278	142,726	66.28	63.91	68.89
Foreign-born.....	147,039	82,596	64,443	33.72	36.09	31.11

^a From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

born Parents of Children born in Michigan during the Inhabitants of Michigan June 1, 1870, at Child-bearing Ages,

NUMBER OF PARENTS OF CHILDREN BORN IN 1870. ^a			Per Cent. of Parents of Children Born in 1870 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.			NUMBER OF PARENTS OF CHILDREN BORN IN 1871. ^a			Per Cent. of Parents of Children Born in 1871 to Inhabitants June 1, 1870, of same Nativity and Sex, aged 15 to 45.		
Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.	Both parents.	Fathers.	Mothers.
52,632	26,316	26,316	9.48	9.10	10.01	51,376	25,688	25,688	9.25	8.88	9.64
24,444	12,222	12,222	^b 6.31	^c 6.24	^d 6.38	22,476	11,238	11,238	^b 5.80	^c 5.74	^d 5.86
17,004	8,502	8,502	^e 10.12	^f 9.11	^g 11.37	17,252	8,626	8,626	^e 10.26	^f 9.24	^g 11.54
4,438	2,219	2,219	^f 4.76	^f 2.87	^d 1.15	4,186	2,093	2,093	^f 4.48	^f 2.24	^d 1.09
2,618	1,309	1,309	^g 3.50	^g 1.75	^c .66	2,418	1,209	1,209	^g 3.23	^g 1.61	^c .61
4,128	2,064	2,064	-----	-----	-----	5,044	2,522	2,522	-----	-----	-----
31,500	15,750	15,750	^b 8.13	^c 8.04	^d 8.22	29,080	14,540	14,540	^b 7.50	^c 7.42	^d 7.59
24,060	12,030	12,030	^e 14.32	^f 12.80	^g 16.09	23,856	11,928	11,928	^e 14.19	^f 12.78	^g 15.96

^a Per cent. to foreign-born inhabitants aged 15 to 45.

^f Per cent. to foreign-born males aged 15 to 45.

^g Per cent. to foreign-born females aged 15 to 45.

^b Excluding cases where nativity of either parent is unknown.

EXHIBIT L.—Nativity of Inhabitants of Michigan June 1, 1870, Aged 25 to 45 Years,—Stating, by Sex, the Number and Per Cent. of Native and Foreign-born Inhabitants at such Ages.

NATIVITY OF INHABITANTS.	INHABITANTS OF MICHIGAN JUNE 1, 1870, AGED 25 TO 45 YEARS. ^a					
	NUMBER.			PER CENT. OF TOTAL.		
	Both sexes.	Males.	Females.	Both sexes.	Males.	Females.
All Nativities.....	320,546	168,756	151,790	100.00	100.00	100.00
Native-born.....	205,374	108,900	101,474	64.07	61.56	66.85
Foreign-born.....	115,172	64,856	50,316	35.93	38.43	33.15

^a From Tables XXIII., XXIV., and XXV., Volume II., Ninth U. S. Census, 1870.

TABLE VIII.—*Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1871, and the Parent-Nativity of such Children, so far as stated in the Returns. (Stillbirths included.)*

STATE AND COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
State ^b	Total	25,992	11,374	8,734	2,109	1,217	876	719	165	306	492
	Males.....	13,596	5,848	4,680	1,148	608	457	404	78	156	222
	Females..	12,327	5,512	4,029	964	606	414	314	85	149	254
	Unknown	69	14	25	2	8	5	1	2	1	16
Alcona	Total	23	8	7	4	4	—	—	—	—	—
	Males.....	16	5	6	2	3	—	—	—	—	—
	Females..	7	3	1	2	1	—	—	—	—	—
Allegan	Total	621	333	163	43	36	27	13	1	1	4
	Males.....	307	166	76	19	22	14	7	1	—	3
	Females..	318	167	87	24	14	13	6	—	1	1
	Unknown	1	—	—	—	—	—	—	—	—	1
Alpena	Total	37	5	22	3	1	4	2	—	—	—
	Males.....	22	3	12	2	—	3	2	—	—	—
	Females..	15	2	10	1	1	1	—	—	—	—
Antrim	Total	46	20	20	2	3	—	—	1	—	—
	Males.....	26	11	12	2	—	—	—	1	—	—
	Females..	20	9	8	—	3	—	—	—	—	—
Barry	Total	443	313	58	40	19	4	—	4	1	4
	Males.....	216	150	29	21	9	1	—	2	1	3
	Females..	225	162	29	19	9	3	—	2	—	1
	Unknown	2	1	—	—	1	—	—	—	—	—

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b For townships from which no returns of births were received see Table IV., of Births by Months; also Table XXI.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	Sex.	Number of Children born.	NATIVITY OF PARENTS. *									
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.	
							Father.		Mother.			
							Native.	Foreign.	Native.	Foreign.		
Bay.....	Total	466	105	239	58	35	7	17	2	.....	3
	Males.....	252	57	133	32	13	1	14	1	.....	1
	Females..	212	48	106	26	22	4	3	1	.....	2
	Unknown	2	.....	.....	.....	.....	2	.....	.....	.....	.....
Benzie.....	Total	67	48	9	6	2	1	.....	.....	.....	1
	Males.....	33	25	4	1	2	.....	.....	.....	.....	1
	Females..	34	23	5	5	.....	1	.....	.....	.....	.....
Berrien.....	Total	559	337	146	37	19	6	5	4	.....	5
	Males.....	292	172	77	22	10	3	4	3	.....	1
	Females..	266	165	68	15	9	3	1	1	.....	4
	Unknown	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Branch.....	Total	413	339	30	27	9	4	.....	2	1	1
	Males.....	225	189	19	13	3	.....	.....	1	.....	.....
	Females..	188	150	11	14	6	4	.....	1	1	1
Calhoun.....	Total	700	481	119	47	38	4	4	2	1	4	
	Males.....	371	244	70	23	26	2	3	2	.....	1
	Females..	327	236	48	24	12	2	1	.....	1	3
	Unknown	2	1	1	.....	.....	.....	.....	.....	.....	.....
Cass.....	Total	341	282	18	25	13	1	1	1	.....	.....
	Males.....	168	141	5	17	4	1	.....	.....	.....	.....
	Females..	171	139	13	8	9	.....	1	1	.....	.....
	Unknown	2	2	.....	.....	.....	.....	.....	.....	.....	.....
Charlevoix..	Total	53	23	22	6	1	.....	.....	.....	.....	1
	Males.....	22	10	8	3	1	.....	.....	.....	.....	.....
	Females..	31	13	14	3	.....	.....	.....	.....	.....	1
Cheboygan..	Total	48	7	1	5	3	7	23	.....	.....	2
	Males.....	26	3	1	3	2	4	12	.....	.....	1
	Females..	22	4	.....	2	1	3	11	.....	.....	1

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								Both unknown.
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Chippewa.....	Total	25	7	8	4	1	1	6	1	.....	2
	Males.....	18	5	1	1	.....	1	4	1	.....	.....
	Females..	12	2	2	3	1	.....	2	.....	.....	2
Clare.....	Total	25	15	4	3	3	.....	.....	.....	.....	.....
	Males.....	16	6	4	3	3	.....	.....	.....	.....	.....
	Females..	9	9	.....	.....	.....	.....	.....	.....	.....	.....
Clinton.....	Total	559	359	99	65	22	10	2	.....	1	1
	Males.....	279	175	52	30	14	6	2	.....	.....	.....
	Females..	278	184	45	35	8	4	.....	.....	1	1
	Unknown	2	.....	2	.....	.....	.....	.....	.....	.....	.....
Delta	Total	93	16	56	11	3	1	4	1	1	.....
	Males.....	50	8	32	4	2	1	2	.....	1	.....
	Females..	43	8	24	7	1	.....	2	1	.....	.....
Eaton.....	Total	508	411	20	37	11	15	6	5	.....	3
	Males.....	277	224	14	17	4	10	4	2	.....	2
	Females..	231	187	6	20	7	5	2	3	.....	1
Emmet	Total	46	27	1	12	1	1	.....	4	.....	.....
	Males.....	23	15	1	5	.....	.....	.....	2	.....	.....
	Females..	23	12	.....	7	1	1	.....	2	.....	.....
Genesee.....	Total	577	388	88	53	38	1	.....	3	.....	16
	Males.....	285	181	48	29	20	1	.....	2	.....	4
	Females..	292	202	35	24	18	.....	.....	1	.....	12
Gr. Traverse..	Total	112	52	27	6	7	8	7	2	1	2
	Males.....	53	28	13	1	2	2	6	.....	.....	1
	Females..	59	24	14	5	5	6	1	2	1	1
Gratiot	Total	265	185	19	25	14	10	1	2	1	3
	Males.....	134	93	10	13	9	6	.....	.....	.....	3
	Females..	131	92	9	12	5	4	1	2	1	5

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. *								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Hillsdale.....	Total	575	398	23	35	22	81	8	2	....	6
	Males.....	286	196	12	20	13	41	3	....	....	1
	Females..	289	202	11	15	9	40	5	2	....	5
Loughton.....	Total	399	5	168	3	4	....	2	17	199	1
	Males.....	207	1	87	2	2	....	2	6	106	1
	Females..	192	4	81	1	2	....	....	11	93	....
Muron.....	Total	281	30	205	30	13	....	1	....	1	1
	Males.....	146	14	108	14	9	....	....	....	....	1
	Females..	135	16	97	16	4	....	1	....	1	....
ingham.....	Total	567	359	84	38	28	42	5	5	....	6
	Males.....	285	187	41	18	14	18	3	2	....	2
	Females..	282	172	43	20	14	24	2	3	....	4
Ionia.....	Total	535	368	83	38	24	2	3	9	2	6
	Males.....	288	196	49	20	9	1	2	3	1	2
	Females..	249	170	34	18	15	1	1	6	1	3
	Unknown	8	2	....	....	....	....	....	....	....	1
Iosco.....	Total	55	17	25	5	6	2	....	....	....	....
	Males.....	31	7	16	4	3	1	....	....	....	....
	Females..	24	10	9	1	3	1	....	....	....	....
Isabella.....	Total	139	86	23	8	6	12	2	....	1	1
	Males.....	69	44	11	6	4	4	....	....	....	....
	Females..	70	42	12	2	2	8	2	....	1	1
Jackson.....	Total	686	442	125	41	23	30	6	4	....	10
	Males.....	364	227	66	31	17	15	5	1	....	2
	Females..	321	214	59	10	11	15	1	3	....	8
	Unknown	1	1	....	....	....	....	....	....	....	....

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Kalamazoo	Total	519	188	15	40	19	159	124	5	---	19
	Males	292	68	11	26	9	85	83	2	---	8
	Females	225	69	4	14	10	73	41	3	---	11
	Unknown	2	1	---	---	---	1	---	---	---	---
Kalkaska	Total	28	13	6	7	1	1	---	---	---	---
	Males	16	5	5	6	---	---	---	---	---	---
	Females	12	8	1	1	1	1	---	---	---	---
Kent	Total	1,025	421	302	115	59	39	75	6	3	5
	Males	546	223	166	56	29	22	42	3	2	3
	Females	475	197	135	59	29	16	33	3	1	2
	Unknown	4	1	1	---	1	1	---	---	---	---
Keweenaw ^b											
Lake	Total	46	27	12	3	3	---	---	1	---	---
	Males	23	16	3	2	2	---	---	---	---	---
	Females	23	11	9	1	1	---	---	1	---	---
Lapeer	Total	469	185	137	57	39	26	20	2	2	1
	Males	241	92	75	30	20	12	9	2	---	1
	Females	228	93	62	27	19	14	11	---	2	---
Leelanaw	Total	137	49	64	16	6	---	---	1	1	---
	Males	73	23	36	8	4	---	---	1	1	---
	Females	64	26	28	8	2	---	---	---	---	---
Lenawee	Total	753	483	153	59	24	25	1	4	1	3
	Males	425	269	91	30	14	15	---	3	---	3
	Females	326	212	62	29	10	10	1	1	1	---
	Unknown	2	2	---	---	---	---	---	---	---	---

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b No returns.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. a								Both unknown.
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Livingston.....	Total	324	182	40	80	12	89	6	6	1	8
	Males.....	184	97	29	14	6	26	3	3	---	6
	Females..	189	85	11	16	6	18	3	2	1	2
	Unknown	1	---	---	---	---	---	---	1	---	---
Mackinac ^b											
Macomb.....	Total	632	207	155	66	39	74	86	2	1	2
	Males.....	317	102	80	36	18	34	45	1	1	---
	Females..	312	105	73	30	20	40	41	1	---	2
	Unknown	3	---	2	---	1	---	---	---	---	---
Manistee.....	Total	149	86	54	20	6	4	3	1	---	25
	Males....	72	18	25	12	4	1	---	1	---	16
	Females..	73	28	29	8	2	3	3	---	---	5
	Unknown	4	---	---	---	---	---	---	---	---	4
Manitou.....	Total	5	---	3	1	---	1	---	---	---	---
	Males.....	3	---	1	1	---	1	---	---	---	---
	Females..	2	---	2	---	---	---	---	---	---	---
Marquette.....	Total	624	41	585	22	15	---	4	---	3	4
	Males.....	348	22	296	17	8	---	3	---	1	1
	Females..	276	19	289	5	7	---	1	---	2	3
	Unknown	---	---	---	---	---	---	---	---	---	---
Mason.....	Total	63	37	9	10	4	1	1	---	---	1
	Males.....	31	19	5	6	1	---	---	---	---	---
	Females..	30	18	4	4	3	---	1	---	---	---
	Unknown	2	---	---	---	---	1	---	---	---	1
Mecosta.....	Total	150	76	34	21	13	4	---	---	---	2
	Males.....	75	35	21	12	5	2	---	---	---	---
	Females..	75	41	13	9	8	2	---	---	---	2

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b No returns.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS.*							
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.	
							Father.		Mother.	
							Native.	Foreign.	Native.	Foreign.
										Both unknown.
Menominee	Total	5	2				3			
	Males	1					1			
	Females	4	2				2			
Midland	Total	92	50	27	12	3				
	Males	52	28	17	6	1				
	Females	40	22	10	6	2				
Missaukee	Total	6		4		1	1			
	Males	4		3		1				
	Females	2		1			1			
Monroe	Total	618	341	193	28	22	2	17	3	12
	Males	319	177	103	15	9	1	9	1	4
	Females	298	164	89	13	13	1	8	2	8
	Unknown	1		1						
Montcalm	Total	313	204	43	34	22	4	1	1	4
	Males	184	114	26	22	16	4			2
	Females	129	90	17	12	6		1	1	2
Muskegon	Total	342	117	96	41	24	21	36		1
	Males	167	58	44	17	11	13	22		2
	Females	175	59	52	24	13	8	14		1
Newaygo	Total	135	61	13	11	4	11	1	15	2
	Males	68	32	7	8	2	5	1	5	1
	Females	65	29	6	3	2	6		10	1
	Unknown	2								2
Oakland	Total	564	304	85	63	36	41	19	2	1
	Males	287	145	52	36	16	26	7	1	
	Females	277	159	36	27	20	15	12	1	1

* "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a									
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.	
							Father.		Mother.			
							Native.	Foreign.	Native.	Foreign.		
Oceana	Total	181	107	22	18	11	16	3			4	
	Males	95	58	14	9	4	7	1			2	
	Females	85	49	8	9	7	9	2			1	
	Unknown	1									1	
Ontonagon	Total	75	1	65	8	5		1				
	Males	41	1	35	1	4						
	Females	34		30	2	1		1				
Osceola	Total	95	58	22	9	6						
	Males	52	31	18	6	2						
	Females	42	27	8	3	4						
	Unknown	1		1								
Ottawa	Total	707	130	414	31	16	40	58	2		16	
	Males	351	68	206	16	7	21	32			6	
	Females	346	67	201	15	9	19	25	1		9	
	Unknown	10		7				1	1		1	
Presque Isle	Total	10		8		1		1				
	Males	4		3		1						
	Females	6		5				1				
Saginaw	Total	1,024	255	518	98	47	81	48	4	3	20	
	Males	580	126	276	51	20	16	24	4	1	12	
	Females	498	128	242	47	27	15	24		2	8	
	Unknown	1	1									
Sanilac	Total	327	27	228	38	32		1			1	
	Males	175	16	124	20	14		1				
	Females	149	11	101	18	18					1	
	Unknown	3		3								
Schoolcraft ^b												

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

^b No returns.

TABLE VIII.—CONTINUED.—*Births by Counties, by Parent-Nativity, and by Sex.*

COUNTIES.	SEX.	Number of Children born.	NATIVITY OF PARENTS. ^a								
			Native.	Foreign.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	MOTHER UNK'N.		FATHER UNK'N.		Both unknown.
							Father.		Mother.		
							Native.	Foreign.	Native.	Foreign.	
Shiawassee	Total	460	295	64	32	32	14	8	6	1	8
	Males	228	139	31	19	17	8	5	3	---	6
	Females	231	156	33	13	15	6	3	3	---	2
	Unknown	1	---	---	---	---	---	---	---	1	---
St. Clair	Total	945	136	524	120	95	6	8	2	---	4
	Males	501	108	270	62	50	3	5	1	---	2
	Females	443	78	254	57	45	3	3	1	---	2
	Unknown	1	---	---	1	---	---	---	---	---	---
St. Joseph	Total	417	322	52	32	9	---	---	1	---	1
	Males	216	171	25	17	3	---	---	---	---	---
	Females	201	151	27	15	6	---	---	1	---	1
	Unknown	---	---	---	---	---	---	---	---	---	---
Tuscola	Total	352	143	95	39	42	10	15	2	---	1
	Males	182	79	45	21	20	8	8	---	---	1
	Females	170	69	50	18	22	2	7	2	---	---
	Unknown	---	---	---	---	---	---	---	---	---	---
Van Buren	Total	592	444	51	46	30	13	---	3	1	4
	Males	293	213	24	23	13	5	---	3	---	2
	Females	297	225	26	18	17	8	---	---	1	2
	Unknown	2	1	1	---	---	---	---	---	---	---
Washtenaw	Total	732	331	259	75	43	4	2	1	2	15
	Males	392	172	140	46	21	3	2	1	2	5
	Females	334	158	117	28	22	1	---	---	---	8
	Unknown	6	1	2	1	---	---	---	---	---	2
Wayne	Total	3,799	628	2,525	194	32	8	62	22	72	211
	Males	2,025	342	1,360	103	36	1	27	13	33	100
	Females	1,763	286	1,162	86	46	2	35	9	34	103
	Unknown	6	---	3	---	---	---	---	---	---	3
Wexford	Total	13	7	2	1	---	2	---	1	---	---
	Males	6	3	1	1	---	1	---	---	---	---
	Females	7	4	1	---	---	1	---	1	---	---

^a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE IX.—*Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children returned as having been born in Michigan during the year 1871, by Months arranged in order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.*

YEAR AND MONTHS.	NUMBER OF TWIN CHILDREN.				NUMBER OF PAIRS OF TWINS.					
	Total.	Males.	Females.	Males to 100 Females.	Total.	Males.	Females.	One of each.	Males to 100 one of each sex.	Males to 100 Females.
Year 1871.....	596	316	280	113	298	96	78	124	77	123
More than an average number of twins.										
July.....	66	41	25	164	83	14	6	13	108	233
August.....	64	27	37	73	32	8	13	11	73	62
September...	60	32	28	114	30	10	8	12	83	125
December....	60	31	29	107	30	11	10	9	122	110
October.....	58	30	28	107	29	9	8	12	75	118
June.....	54	34	20	170	27	13	6	8	163	217
Average per month *.	49.6	26.8	23.3	113	24.8	8	6.5	10.3	77	123
Less than an average number of twins.										
May.....	48	26	22	118	24	7	5	12	58	140
November...	44	23	21	110	22	8	7	7	114	114
April.....	42	21	21	100	21	3	3	15	20	100
March.....	38	19	19	100	19	4	4	11	36	100
January.....	30	13	17	76	15	2	4	9	22	50
February....	30	18	12	150	15	7	4	4	175	175
Unknown.....	2	1	1	100	1	-----	-----	1	-----	-----

* Unknown month included.

In 1870, the order of greatest number of pairs of twins was: both males, one of each sex, both females. It will be seen by Table IX. that in 1871 it is: one of each sex, 124 pairs; both males, 96 pairs; both females, 78 pairs. Notwithstanding this change in the order, the proportion of males was greater in 1871 than in the previous year, when for all twins it was 107 males to 100 females, while in 1871 it is 113 males to 100 females. This is apparently another instance where a decrease in number of children born is attended with a lessened proportion of female children, as pointed out on page 78 of last

Report. While in 1870 there were 678 twin children born, in 1871 only 596 were returned.

If the reader desires to compare the proportion of twins of either or of both sexes with the proportion of total births by months, he can do so by referring to Table II., page 2 of this Report.

TABLE X.—*Parent-Nativity of Twins Born in Michigan during the year 1871.*

NATIVITY OF PARENTS.	TWIN CHILDREN.							
	NUMBER OF PAIRS.				PER CENT. OF EACH PARENT-NATIVITY.			
	Total.	Males.	Females.	One of each sex.	Total.	Males.	Females.	One of each sex.
All Nativities.....	298	96	78	124	100.00	100.00	100.00	100.00
Both native.....	132	39	41	52	44.30	40.63	52.56	41.94
Both foreign.....	106	42	22	42	35.57	43.75	28.21	33.87
Foreign father and native mother.....	16	3	4	9	5.37	3.12	5.13	7.26
Foreign mother and native father.....	8	1	4	3	2.68	1.04	5.13	2.42
Unknown mother, father native.....	15	4	5	6	5.03	4.17	6.41	4.84
Unknown mother, father foreign.....	13	5	---	8	4.36	5.21	---	6.45
Unknown father, mother foreign.....	2	---	---	2	.67	---	---	1.61
Both unknown.....	6	2	2	2	2.01	2.08	2.56	1.61
One or both native.....	171	47	54	70	57.38	48.96	69.23	56.45
One or both foreign.....	145	51	30	64	48.66	53.13	38.46	51.61

EXHIBIT M.—Parent-Nativity of Twins born in Michigan during the Years 1870 and 1871,—Relation of Native and Foreign-born Parents to Native and Foreign-born Population.

NATIVITY OF PARENTS OF TWINS AND NATIVITY OF INHABITANTS	NATIVE AND FOREIGN-BORN POPULATION JUNE 1, 1870.			PARENTS OF TWINS BORN IN 1870 AND 1871.								
				YEAR.	NUMBER.			Per cent. of parents to populat'n of same sex and nativity.				
	Total.	Males.	Females.		Both Parents.	Fathers.	Mothers.					
All Nativities ^a	c1,158,166	608,655	554,511	1870	620	310	310	.005	.005	.005		
Native ^b	e 904,740	468,422	441,818		377	188	194	.004	.004	.004		
Foreign ^b	e 258,426	140,233	118,193		243	127	116	.009	.009	.009		
All Nativities ^a	d1,147,334	597,767	549,466	1871	524	262	262	.004	.004	.004		
Native ^b	d 894,202	457,914	436,288		288	140	148	.008	.008	.008		
Foreign ^b	d 258,082	139,854	118,178		236	122	114	.009	.009	.010		

^a Includes parents of unknown nativities.

^b Excluding cases where nativity of either parent is unknown.

^c Except of counties and townships not represented by births in 1870.

^d Except of counties and townships not represented by births in 1871.

TABLE XI.—*Parent-Nativity of Twins born in Michigan during the year 1871,—distinguishing between Parents Natives of the Same State, and those born in Different States or Countries.*

NATIVITY OF PARENTS.	PAIRS OF TWINS.							
	NUMBER.				PER CENT. OF EACH PARENT-NATIVITY.			
	Total.	Males.	Females.	One of each.	Total.	Males.	Females.	One of each.
All nativities.....	298	96	78	124	100.00	100.00	100.00	100.00
Same American or foreign State.....	171	59	48	69	57.38	61.46	55.18	55.65
Different American or foreign State.....	67	22	20	25	22.48	22.92	25.64	20.16
Foreign father and native mother.....	16	8	4	9	5.37	8.12	5.18	7.96
Foreign mother and native father.....	8	1	4	3	2.68	1.04	5.13	2.42
Unknown mother, father native.....	15	4	5	6	5.03	4.17	6.41	4.84
Unknown mother, father foreign.....	13	5	—	8	4.36	5.21	—	6.45
Unknown father, mother foreign.....	2	—	—	2	.67	—	—	1.61
Both unknown.....	6	2	2	2	2.01	2.05	2.56	1.61
Different State or country *.....	91	26	28	37	30.54	27.08	35.90	29.84

* Includes "Different American or foreign State," "Foreign father and native mother," and "Foreign mother and native father." Compare with "Same American or foreign State."

TABLE XII.—Exhibiting for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins born in Michigan during the Year 1871. Nativity stated by Pairs of Twins.

STATE AND COUNTIES.		SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
					Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
					Both parents from same State.	From different States.	Both from same country.	From different countries.			
State.....	Total	596	298	75	57	96	10	16	8	36	
	Males	316	96	21	18	38	4	3	1	11	
	Females	280	78	23	18	20	2	4	4	7	
	One of each .....	.....	124	31	21	38	4	9	3	18
Allegan.....	Total	24	12	4	2	5	.....	.....	.....	1
	Males	16	7	*1	2	4	.....	.....	.....	.....
	Females	8	3	2	.....	1	.....	.....	.....	.....
	One of each .....	.....	2	1	.....	.....	.....	.....	.....	b 1
Alpena.....	Total	2	1	.....	.....	1	.....	.....	.....	.....
	Males	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females	1	.....	.....	.....	.....	.....	.....	.....	.....
	One of each .....	.....	1	.....	.....	1	.....	.....	.....	.....
Antrim.....	Total	2	1	1	.....	.....	.....	.....	.....	.....
	Females	2	1	1	.....	.....	.....	.....	.....	.....
Barry.....	Total	8	4	2	2	.....	.....	.....	.....	.....
	Males	2	.....	.....	.....	.....	.....	.....	.....	.....
	Females	6	2	1	1	.....	.....	.....	.....	.....
	One of each .....	.....	2	1	1	.....	.....	.....	.....	.....
Bay.....	Total	4	2	.....	.....	2	.....	.....	.....	.....
	Males.....	4	2	.....	.....	2	.....	.....	.....	.....

^a Indian, 1 pair.

^b Father foreign, 1 pair.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.					
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.
				Both parents from same State.	From different States.	Both from same country.	From different countries.		
Benzie.....	Total	2	1			1			
	Males	1							
	Females	1							
	One of each		1			1			
Berrien	Total	6	3	1		1			1
	Males	3	1	1					
	Females	3	1			1			
	One of each		1						a 1
Branch.....	Total	6	3	1				1	1
	Males	2							
	Females	4	1						b 1
	One of each		2	1				1	
Calhoun	Total	14	7	3		4			
	Males	6	1			1			
	Females	8	2	1		1			
	One of each		4	2		2			
Cass	Total	6	3	1	2				
	Males	2							
	Females	4	1		1				
	One of each		2	1	1				
Cheboygan.....	Total	2	1						1
	Males	1							
	Females	1							
	One of each		1						c 1
Clinton.....	Total	14	7	2	1	3		1	
	Males	9	3	1		2			
	Females	5	1			1			
	One of each		3	1	1			1	

a Illegitimate, 1 pair—father native. b Father native, 1 pair. c Father foreign, 1 pair.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.					
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.
				Both parents from same State.	From different States.	Both from same country.	From different countries.		
Delta	Total	2	1			1			
	Females	2	1			1			
Eaton	Total	22	11	5	3		1	2	
	Males	18	4	2			1	1	
	Females	9	2	1	1				
	One of each		5	2	2			1	
Emmet	Total	2	1	1					
	Males	2	1	^a 1					
Genesee	Total	16	8	4	2	1		1	
	Males	11	4	3		1			
	Females	5	1		1				
	One of each		3	1	1			1	
Grand Traverse	Total	2	1						1
	Females	2	1						^b 1
Gratiot	Total	8	4	1	2	1			
	Males	6	3	^c 1	^c 1	^c 1			
	Females	2	1		^c 1				
	One of each		4		4				
Hillsdale	Total	3							
	Males	3							
	Females	5	1		1				
	One of each		3		3				
Houghton	Total	6	3			2			1
	Males	3	1			1			
	Females	3	1			1			
	One of each		1						^d 1

^a Indian, 1 pair.

^d Mother foreign, 1 pair.

^b Father native, 1 pair.

^c Color unknown, 1 pair.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
Huron	Total	6	3	1	---	2	---	---	---	---
	Males	3	---	---	---	---	---	---	---	---
	Females	3	---	---	---	---	---	---	---	---
	One of each	---	3	1	---	2	---	---	---	---
Ingham	Total	8	4	1	1	2	---	---	---	---
	Males	2	---	---	---	---	---	---	---	---
	Females	6	2	---	1	1	---	---	---	---
	One of each	---	2	1	---	1	---	---	---	---
Ionia	Total	16	8	3	4	1	---	---	---	---
	Males	8	3	3	---	---	---	---	---	---
	Females	8	3	---	3	---	---	---	---	---
	One of each	---	2	---	1	1	---	---	---	---
Iosco	Total	2	1	---	---	---	---	---	---	1
	Males	1	---	---	---	---	---	---	---	---
	Females	1	---	---	---	---	---	---	---	---
	One of each	---	1	---	---	---	---	---	---	a 1
Isabella	Total	2	1	1	---	---	---	---	---	---
	Males	1	---	---	---	---	---	---	---	---
	Females	1	---	---	---	---	---	---	---	---
	One of each	---	1	1	---	---	---	---	---	---
Jackson	Total	16	8	2	3	2	1	---	---	---
	Males	4	---	---	---	---	---	---	---	---
	Females	12	4	1	2	---	1	---	---	---
	One of each	---	4	1	1	2	---	---	---	---
Kalamazoo	Total	12	6	---	2	---	---	---	---	4
	Males	6	2	---	1	---	---	---	---	b 1
	Females	6	2	---	---	---	---	---	---	c 2
	One of each	---	2	---	1	---	---	---	---	b 1

a Father native, 1 pair.

b Father foreign, 1 pair.

c Father native, 2 pairs.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
Kent.....	Total	28	14	8	1	2	.....	2	2	4
	Males	17	6	1	1	2	.....	.....	1	a 1
	Females	11	8	1	.....	.....	.....	.....	1	a 1
	One of each .....	.....	5	1	.....	.....	.....	2	.....	b 2
Lake.....	Total	2	1	1	.....	.....	.....	.....	.....	.....
	Males	1	.....	.....	.....	.....	.....	.....	.....	.....
	Females	1	.....	.....	.....	.....	.....	.....	.....	.....
	One of each .....	.....	1	1	.....	.....	.....	.....	.....	.....
Lapeer.....	Total	10	5	2	.....	2	.....	.....	1	.....
	Males	4	1	.....	.....	1	.....	.....	.....	.....
	Females	6	2	1	.....	.....	.....	.....	1	.....
	One of each .....	.....	2	1	.....	1	.....	.....	.....	.....
Leelanaw.....	Total	6	3	2	.....	1	.....	.....	.....	.....
	Males	2	1	.....	.....	1	.....	.....	.....	.....
	Females	4	2	c 2	.....	.....	.....	.....	.....	.....
Lenawee.....	Total	30	15	8	8	3	.....	1	.....	.....
	Males	19	8	.....	4	3	.....	1	.....	.....
	Females	11	4	2	2	.....	.....	.....	.....	.....
	One of each .....	.....	3	1	2	.....	.....	.....	.....	.....
Livingston.....	Total	8	4	1	.....	.....	.....	1	.....	2
	Males	3	1	.....	.....	.....	.....	.....	.....	a 1
	Females	5	2	1	.....	.....	.....	1	.....	.....
	One of each .....	.....	1	.....	.....	.....	.....	.....	.....	d 1
Macomb.....	Total	14	7	1	.....	4	.....	.....	.....	2
	Males	8	2	.....	.....	.....	.....	.....	.....	e
	Females	6	1	1	.....	.....	.....	.....	.....	.....
	One of each .....	.....	4	.....	.....	4	.....	.....	.....	.....

a Father native, 1 pair. b Father foreign, 2 pairs. c Indian, 1 pair. d Father foreign, 1 pair.
 e Father native, 1 pair, and father foreign, 1 pair.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
Manistee.....	Total	4	2			1				1
	Males	3	1							1
	Females	1								
	One of each		1			1				
Marquette.....	Total	18	9	2	1	4	1			1
	Males	6	1	1						
	Females	12	4	^a 1		^a 2	1			
	One of each		4		^b 1	2				^c 1
Mason.....	Total	2	1			1				
	Males	1								
	Females	1								
	One of each		1			1				
Midland.....	Total	2	1		1					
	Females	2	1		1					
Monroe.....	Total	22	11	7	1	2				1
	Males	10	3	2		1				
	Females	12	4	3						^d 1
	One of each		4	2	1	1				
Montcalm.....	Total	4	2	1	1					
	Males	4	2	1	1					
Muskegon.....	Total	10	5		1	1		1	1	1
	Males	3								
	Females	7	2		^e 1	1				
	One of each		3					^e 1	^e 1	^f 1
Newaygo.....	Total	6	3	1	1					1
	Males	4	1		1					
	Females	2								
	One of each		2	1						1

^a Still-born, 1 pair. ^b Mulatto, 1 pair. ^c Illegitimate, 1 pair,—mother foreign.
^d "American," 1 pair, called unknown. ^e Color unknown. ^f Father native, 1 pair.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
Oakland	Total	16	8	2	2	3	—	1	—	—
	Males	10	4	1	2	1	—	—	—	—
	Females	6	2	1	—	—	—	1	—	—
	One of each	—	2	—	—	2	—	—	—	—
Oceana	Total	4	2	1	1	—	—	—	—	—
	Males	2	—	—	—	—	—	—	—	—
	Females	2	—	—	—	—	—	—	—	—
	One of each	—	2	1	1	—	—	—	—	—
Osceola	Total	4	2	1	—	—	—	—	1	—
	Males	2	—	—	—	—	—	—	—	—
	Females	2	—	—	—	—	—	—	—	—
	One of each	—	2	1	—	—	—	—	1	—
Ottawa	Total	18	9	2	—	1	—	1	—	5
	Males	12	4	1	—	1	—	1	—	a 1
	Females	6	1	—	—	—	—	—	—	b 1
	One of each	—	4	1	—	—	—	—	—	c 3
Saginaw	Total	22	11	3	1	6	—	1	—	—
	Males	18	8	—	1	2	—	—	—	—
	Females	9	1	1	—	—	—	—	—	—
	One of each	—	7	2	—	4	—	1	—	—
Sanilac	Total	6	3	—	—	1	2	—	—	—
	Males	5	2	—	—	1	1	—	—	—
	Females	1	—	—	—	—	—	—	—	—
	One of each	—	1	—	—	—	1	—	—	—
Shiawassee	Total	10	5	—	3	—	—	1	—	1
	Males	2	—	—	—	—	—	—	—	—
	Females	8	3	—	2	—	—	1	—	—
	One of each	—	2	—	1	—	—	—	—	1

a Father foreign, 1 pair. b "American"—called unknown—1 pair, and father foreign, 1 pair. c Father native, 2 pairs, and father foreign, 1 pair.

TABLE XII.—CONTINUED.—*Parent-Nativity of Twins.*

COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of Twins.	NATIVITY OF PARENTS.						
				Native.		Foreign.		Foreign Father and Native Mother.	Foreign Mother and Native Father.	Unknown.
				Both parents from same State.	From different States.	Both from same country.	From different countries.			
St. Clair.....	Total	26	13	1	2	8	—	—	1	1
	Males	14	6	1	2	2	—	—	—	a 1
	Females	12	5	—	—	4	—	—	1	—
	One of each	—	2	—	—	2	—	—	—	—
St. Joseph.....	Total	6	3	—	1	1	—	—	1	—
	Males	3	1	—	—	1	—	—	—	—
	Females	3	1	—	—	—	—	—	1	—
	One of each	—	1	—	1	—	—	—	—	—
Tuscola.....	Total	6	3	—	1	—	—	—	—	2
	Males	4	1	—	—	—	—	—	—	b 1
	Females	2	—	—	—	—	—	—	—	—
	One of each	—	2	—	1	—	—	—	a 1	—
Van Buren.....	Total	14	7	3	1	2	—	—	—	1
	Males	7	1	—	c 1	—	—	—	—	—
	Females	7	1	—	—	1	—	—	—	—
	One of each	—	5	3	—	1	—	—	b 1	—
Washtenaw.....	Total	16	8	2	1	4	—	—	1	—
	Males	9	3	—	—	3	—	—	—	—
	Females	7	2	2	—	—	—	—	—	—
	One of each	—	3	—	d 1	1	—	—	1	—
Wayne.....	Total	64	32	2	1	20	5	2	—	2
	Males	38	12	—	1	7	2	—	—	e 2
	Females	26	6	—	—	5	—	1	—	—
	One of each	—	14	2	—	8	3	1	—	—

a Father foreign, 1 pair. b Father native, 1 pair. c Mulatto, 1 pair. d Black, 1 pair. e "American"—called unknown, 1 pair, and father foreign, 1 pair.

TABLE XIII.—*Occupations of Fathers of Twins born in Michigan during the year 1871, according to the Returns.*

OCCUPATIONS.	No. OF EACH.	OCCUPATIONS.	No. OF EACH.
Of all occupations.....	298	Jeweler.....	1
Banker.....	1	Laborers.....	31
Blacksmiths.....	7	Landlord.....	1
Brick-makers.....	2	Locksmith.....	1
Builders.....	2	Lumbermen.....	3
Butchers.....	2	Machinist.....	1
Cabinet-maker.....	1	Masons.....	2
Carpenters.....	12	Mechanic.....	1
Carpenter and joiners.....	2	Merchants.....	3
Cigar-maker.....	1	Millwright.....	1
Clerk.....	1	Miner.....	1
Clothing merchants.....	2	Peddlers.....	2
Cooper.....	1	Physician.....	1
"Crippled Soldier".....	1	Plasterer.....	1
Day-laborer.....	1	Preacher.....	1
Dept. County Clerk.....	1	Sailors.....	3
Druggist.....	1	Saloon-keepers.....	2
Engineers.....	3	Sawyers.....	2
Farmers.....	180	Ship-carpenter.....	1
Gardener.....	1	Shoe-makers.....	5
Grocer.....	1	Tailors.....	2
Hunter.....	1	Teamster.....	1
Insurance Agents.....	2	Watch-maker.....	1
Iron Founder.....	1	Unknown.....	3

TABLE XIV.—Exhibiting, by Sex, the Parent-Nativity, and by Sex and Months the Number, of Stillbirths in Michigan during the Year 1871.

SEX.	MONTHS.												NATIVITY OF PARENTS.																																																									
	Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Parents born in Mich.				NATIVE.			FOREIGN.			MOTHER UNK'N.		FATHER UNK'N.																																											
															Father.	Mother.	Total.	Same State.	Different States.	Total.	Same country.	Different countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Native.																																									
Total.....	88	1	14	8	5	4	10	10	4	4	12	4	9	8	18	19	35	21	14	83	28	5	4	2	2	6	2	4																																										
Males.....	44	.....	6	6	4	2	6	4	3	4	4	2	5	1	11	10	21	10	11	15	14	1	1	1	1	3	1	.....																																									
Females.....	27	.....	4	2	1	.....	4	2	.....	1	6	2	4	1	6	6	10	10	1	9	6	18	3	1	1	3	1	.....																																									
Unknown	17	1	1	1	.....	2	2	5	.....	.....	2	.....	.....	1	1	3	4	2	2	9	8	1	.....	.....	.....	1	.....	1																																	
															a Color unknown. 1.											b Black. 1.											c One twin.											d Mulatto. 1.											e One pair twins.											f One pair twins.

a Color unknown, 1.

b Black, 1.

c One twin.

d Mulatto, 1.

e One pair twins.

f One pair twins.

TABLE XV.—*Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Born in Michigan during the Year 1871, of Parents who were Natives of the same, and of Different States or Countries.*

NATIVITY OF PARENTS.	STILL-BORN CHILDREN.							
	NUMBER.				PER CENT. OF EACH PARENT-NATIVITY.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....	88	44	27	17	100.00	100.00	100.00	100.00
Same American or Foreign State.....	49	24	15	10	55.68	54.55	55.56	58.82
Different American or Foreign State....	19	12	4	3	21.59	27.27	14.81	17.64
Foreign Father and Native Mother....	4	1	3	—	4.54	2.27	11.11	—
Foreign Mother and Native Father....	2	1	1	—	2.27	2.27	8.70	—
Unknown Mother Father Native.....	2	1	1	—	2.27	2.27	8.70	—
Unknown Mother Father Foreign.....	6	3	3	—	6.82	6.82	11.11	—
Unknown Father Mother Native.....	2	1	—	1	2.27	2.27	—	5.83
Both Unknown.....	4	1	—	3	4.54	2.27	—	17.64
Different State or Country.....	25	14	8	3	28.40	31.81	29.62	17.64
Native.....	35	21	10	4	39.77	47.72	37.08	23.58
Foreign.....	33	15	9	9	37.50	34.09	33.88	52.94

* Compare with same statement for twins in Table XI.

That there were 88 stillbirths returned for the year 1871 against 74 for 1870 does not necessarily imply that the number which actually occurred was greater in the last named year. Unfortunately for the cause of truth in this line of study, the people generally, and even the supervisors, seem to think that it is not important to record a birth, except of a child born alive, and then not if the child dies soon after birth. It is to be hoped that they may soon realize that all facts which bear directly upon the life and death of human beings are important and worthy of record.

The order of greatest number of stillbirths by months in 1871 was as follows: February, 14; October, 12; June, 10; July, 10; December, 9; March, 8; April, 5; May, 4; August, 4; September, 4; November, 4; and January, 1. This order may be compared with that of the total births by referring to Table II., page 2.

The proportion of each sex among still-born children in 1871 was 162.96 males to 100 females. This subject will be further considered in connection with the study of the causes influencing the sex of offspring. In the last Report it was suggested that the causes of the very great excess of males still-born were the larger heads and more sensitive nervous organizations of male infants.

TABLE XVI.—*Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan during the Year ending December 31st, 1871.*

SEX.	Year 1871.	MONTHS.												NATIVITY OF MOTHERS.						NATIVITY OF FATHERS.						
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	NATIVE.			FOREIGN.			NATIVE.			FOREIGN.			
		Total.	Born in Mich-igan.	Born in other States.	Total.	Born in Mich-igan.	Born in other States.	Total.	Born in Cap-ada.	Born in other Countries.	Unknown.	Total.	Born in Mich-igan.	Born in other States.	Total.	Born in Cap-ada.	Born in other Countries.	Unknown.	Total.	Born in Mich-igan.	Born in other States.	Total.	Born in Cap-ada.	Born in other Countries.	Unknown.	
Total	183	10	11	17	17	14	26	13	13	20	16	13	75	47	28	74	88	36	84	26	17	9	21	11	10	136
Males	80	5	8	9	9	7	16	7	4	8	8	5	40	27	13	32	16	16	8	14	9	5	6	3	8	60
Females	100	4	8	12	8	6	9	6	9	12	8	8	34	19	15	41	21	20	25	12	8	4	15	8	7	73
Unknown	8	1	..	..	..	1	1	..	..	..	..	..	1	1	1	1	1	1	1	..	..	..	..	..	..	3

TABLE XVII.—*Exhibiting, by Color and by Sex, the Population June 1, 1870, the Number of Illegitimate Children Born in Michigan during the Year 1871, the Per Cent. of such Children to Inhabitants, the Per Cent. of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child born.*

COLOR OR RACE.	Sex.	Population June 1, '70, represent'd by births in 1871.	Total illegitimate births.	Per cent. of births to population.	Per cent. of each sex to total of both sexes.	No. of Inhabitants to one illegitimate child of the same color.
All colors	Total	1,147,284	158	.015	-----	6,269
	Males	597,768	80	.018	44.44	-----
	Females ..	549,466	100	.018	55.55	-----
	Unknown ..	-----	8	-----	-----	-----
White	Total	1,131,430	154	.018	-----	7,346
	Males	589,550	66	.011	43.42	-----
	Females ..	541,880	96	.015	56.57	-----
	Unknown ..	-----	2	-----	-----	-----
Black	Total	5,359	9	.167	-----	595
	Males	2,966	a 6	.202	66.66	-----
	Females ..	2,393	b 3	.125	33.33	-----
Mulatto	Total	6,145	c 2	.032	-----	3,072
	Males	3,106	1	.032	50.00	-----
	Females ..	3,039	1	.032	50.00	-----
Indian	Total	4,300	8	.186	-----	537
	Males	2,146	c 4	.186	50.00	-----
	Females ..	2,154	d 4	.185	50.00	-----
Unknown color..	Total	-----	10	-----	-----	-----
	Males	-----	8	-----	33.33	-----
	Females ..	-----	6	-----	66.66	-----
	Unknown ..	-----	1	-----	-----	-----
Black & Mulatto	Total	11,504	11	.095	-----	1,045
	Males	6,072	7	.115	63.63	-----
	Females ..	5,432	4	.078	36.36	-----

a "Colored," 2; "Negro," 1. b "Colored," 2; "African," 1. c " $\frac{1}{2}$ White," 1; and " $\frac{1}{4}$ White," 1. d " $\frac{1}{4}$ White," 1.

TABLE XVIII.—*Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign Parents in Michigan during the Year 1871.*

NATIVITY OF PARENTS.		ILLEGITIMATE CHILDREN.								
		Number of Males to 100 Females.	NUMBER.				PER CENT. OF EACH PARENT- NATIVITY.			
			Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
All Nativities.....		80.	188	80	100	8	100.00	100.00	100.00	100.00
Mothers.....	Native....	117.	75	40	34	1	40.98	50.00	84.00	88.33
	Foreign....	78.	74	32	41	1	40.43	40.00	41.00	88.33
	Unknown	32.	34	8	25	1	18.58	10.00	25.00	88.33
Fathers.....	Native....	116.	26	14	12	----	14.21	17.50	12.00	-----
	Foreign....	40.	21	6	15	----	11.47	7.50	15.00	-----
	Unknown	82.	136	60	73	8	74.81	75.00	73.00	100.00

TABLE XIX.—*Exhibiting the Details concerning Triplet Children Born in Michigan during the Year 1871.*

COUNTIES.	CHILDREN.				PARENTS.		
	Months of birth.	Color.	SEX.		Birthplace of Father.	Birthplace of Mother.	Occupation of Father.
			Male.	Female.			
Isabella	October.	White.		3	Ohio.	Michigan.	Farmer.
Lenawee	May.	White.	3		Michigan.	Michigan.	Farmer.
Wayne.....	October.	White.	1	2	Canada.	Canada.	Carpenter.

TABLE XX.—*Exhibiting, for the State and Counties, the Number of Females aged 16 to 45 in Michigan June 1, 1870, the Number of such Females to one Child, to one Illegitimate Child, and to one Pair of Twins, Born in Michigan during the Year 1871; the Number of Males to 100 Females among Twins; and the Number of Illegitimate and of Still-born Children Born during the Year 1871.*

STATE AND COUNTIES.	Female population aged 16 to 45, June 1, 1870, represented by births, in 1871. ^a	Per cent. of total births in 1871 to females aged 16 to 45, June 1, 1870. ^b	No. of females aged 16 to 45, June 1, 1870, to one child born in 1871. ^c	No. of females aged 16 to 45, June 1, 1870, to one illegitimate child born in 1871. ^d	No. of females aged 16 to 45, June 1, 1870, to one pair of twins born in 1871. ^e	Twin children.—No. of males to 100 females.	No. of illegitimate chil- dren born in 1871.	No. of stillbirths in 1871.
State	247,142	10.51	9.50	2,353	529	113	105	83
Alcona.....	^c 157	14.64	6.82	^d	^e	^e	-----	-----
Allegan.....	6,681	9.29	10.75	6,681	556	200	1	-----
Alpena.....	548	6.75	14.81	^d	548	100	-----	-----
Antrim.....	387	11.88	8.41	387	387	^f	1	-----
Barry.....	4,722	9.38	10.65	1,574	1,180	33	3	1
Bay.....	2,544	18.31	5.45	2,544	1,272	^g	1	4
Benzie.....	406	16.50	6.05	^d	406	100	-----	-----
Berrien.....	7,591	7.36	13.57	1,265	2,530	100	6	3
Branch.....	5,941	6.95	14.88	1,950	1,980	50	3	-----
Calhoun.....	8,377	8.35	11.96	2,792	1,196	75	3	8
Cass.....	4,192	8.13	12.29	4,192	1,397	50	1	4
Charlevoix.....	263	20.15	4.96	263	^e	^e	1	-----
Cheboygan.....	402	11.94	8.37	^d	402	100	-----	-----
Chippewa.....	286	8.74	11.44	^d	^e	^e	-----	-----
Clare.....	37	67.56	1.48	^d	^e	^e	-----	-----
Clinton.....	4,860	11.50	8.69	^d	694	180	-----	4

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population June 1, 1870, represented by births in 1871 is used in computing statements for this column.

^c Includes population of Oscoda county.

^d No illegitimate births returned.

^e No twin births returned.

^f No males.

^g No females.

TABLE XX.—CONTINUED.

COUNTIES.	Female population aged 16 to 45, June 1, 1870, represented by births in 1871. ^a	Per cent. of total births in 1871 to females aged 16 to 45, June 1, 1870. ^b	No. of females aged 16 to 45, June 1, 1870, to one child born in 1871. ^c	No. of females aged 16 to 45, June 1, 1870, to one illegitimate child born in 1871. ^d	No. of females aged 16 to 45, June 1, 1870, to one pair of twins born in 1871. ^e	Twin children.—No. of males to 100 females.	No. of illegitimate children born in 1871.	No. of stillbirths in 1871.
Delta	285	32.63	3.06	285	285	e	1	....
Eaton	5,524	9.19	10.87	c	502	144	.....	6
Emmet	247	18.62	5.36	49	247	f	5	....
Genesee	7,554	7.63	13.09	2,513	944	220	3	....
Grand Traverse	881	12.71	7.56	881	881	e	1	....
Gratiot	2,373	11.16	8.95	c	503	300	.....	....
Hillsdale	7,016	8.19	12.20	7,016	1,754	60	1	....
Houghton	1,752	22.77	4.39	1,752	584	100	1	....
Huron	1,532	13.34	5.45	766	510	100	2	....
Ingham	5,342	10.61	9.42	1,780	1,335	33	3	5
Ionia	4,738	9.32	10.72	717	717	100	8	....
Iosco	640	8.59	11.63	c	640	160	.....	....
Isabella	784	17.72	5.64	784	784	100	1	....
Jackson	8,025	8.54	11.69	8,025	1,003	33	1	....
Kalamazoo	7,394	7.10	14.07	2,434	1,217	100	3	1
Kalkaska	71	29.43	2.53	c	d	d	.....	....
Kent	11,107	9.22	10.83	3,702	793	155	3	2
Keweenaw ^h .....							.....	....
Lake	103	42.59	2.34	c	103	100	.....	....
Lapeer	4,456	10.52	9.50	1,114	891	67	4	2
Leelanaw	885	15.48	6.45	295	295	50	3	....
Lenawee	10,458	7.20	13.88	5,229	697	173	2	2
Livingston	4,094	7.91	12.63	c	1,022	60	.....	1
Mackinac ^h .....							.....	....
Macomb	5,664	11.15	8.96	1,416	809	133	4	12
Manistee	1,231	12.10	8.26	c	615	300	.....	....
Manitou	135	3.70	27.00	c	d	d	.....	....

^a Law of Michigan limits age of marriage of females to not less than that of sixteen years.

^b Only population June 1, 1870, represented by births in 1871 is used in computing statements for this column.

^c No illegitimate births returned.

^d No twin births returned.

^e No males.

^f No females.

^g Includes population of Ogemaw county.

^h No returns of births.

TABLE XX.—CONTINUED.

COUNTIES.	Female population aged 16 to 45, June 1, 1870, represented by births in 1871. ^a	Per cent. of total births in 1871 to females aged 16 to 45, June 1, 1870. ^b	No. of females aged 16 to 45, June 1, 1870, to one child born in 1871. ^b	No. of females aged 16 to 45, June 1, 1870, to one illegitimate child born in 1871. ^b	No. of females aged 16 to 45, June 1, 1870, to one pair of twins born in 1871. ^b	Twin children.—No. of males to 100 females.	No. of illegitimate children born in 1871.	No. of stillbirths in 1871.
Marquette	2,695	23.15	4.31	336	299	50	8	11
Mason	423	14.89	6.71	c	423	100	.....	.....
Mecosta	1,165	12.87	7.76	1,165	d	d	1	.....
Menominee	42	11.90	8.40	c	d	d	.....	.....
Midland	633	14.53	6.88	c	633	e	.....	.....
Missaukee	20	30.00	3.33	c	d	d	.....	.....
Monroe	5,594	11.04	9.05	1,864	508	88	3	1
Montcalm	2,772	11.29	8.85	2,772	1,386	f	1	.....
Muskegon	2,714	12.60	7.93	1,357	542	43	2	.....
Newaygo	1,223	10.99	9.09	c	409	200	.....	.....
Oakland	9,158	6.15	16.23	9,158	1,144	167	1	.....
Oceana	1,516	11.94	8.87	1,516	758	100	1	.....
Ontonagon	491	15.27	6.54	c	d	d	.....	3
Osceola	406	23.28	4.29	c	204	100	.....	.....
Ottawa	5,123	13.78	7.25	5,123	569	200	1	1
Presque Isle	56	17.85	5.60	c	d	d	.....	.....
Saginaw	7,954	12.87	7.76	3,977	723	144	2	.....
Sanilac	2,572	12.71	7.86	2,572	857	500	1	3
Schoolcraft ^g .....	.....	.....	.....	.....	.....	.....	.....	.....
Shiawassee	4,545	10.12	9.88	649	909	25	7	2
St. Clair	7,407	12.75	7.89	3,708	569	117	2	5
St. Joseph	5,797	7.19	13.90	1,932	1,932	100	3	.....
Tuscola	2,734	12.87	7.76	1,367	911	200	2	.....
Van Buren	6,306	9.38	10.65	2,102	900	100	3	.....
Washtenaw	9,221	7.93	12.59	9,221	1,152	129	1	2
Wayne	25,860	14.69	6.80	c	808	146	.....	.....
Wexford	103	12.62	7.92	c	^h d	d	.....	.....

^a Law of Michigan limits age of Marriage of females to not less than that of sixteen years.

^b Only population June 1, 1870, represented by births in 1871, is used in computing statements for this column.

^c No illegitimate births returned.

^d No twin births returned.

^e No males.

^f No females.

^g No returns of births.

BIRTHS—DELINQUENT RETURNS.

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TABLE XXI.—Exhibiting the Number of Females Aged 16 to 45, and, by Sex and by Color, the Number of Inhabitants June 1, 1870, in Counties and Townships not represented by Returns of Births in 1871.

STATE COUNTIES.	TOWNSHIPS FROM WHICH NO RETURNS WERE RECEIVED.	POPULATION JUNE 1, 1870.			WHITE.			BLACK.			MULATTO.			INDIAN.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
State		87,043	20,438	16,565	7,129	36,331	20,126	16,105	162	51	61	79	31	44	457	242
Bay																
Benzle	Bangor	8,606	2,083	1,568	762	3,885	2,028	1,557	5	4	1	11	1	10	5	5
Cass	Inland	204	107	97	46	204	107	97								
Charlevoix	La Grange	1,835	1,000	835	228	1,818	966	847	58	26	32	14	8	6		
Chippewa	{ Evangeline	90	53	37	14	90	53	37								
Clare	{ Norwood	132	91	91	41	132	91	91								
	Sugar Island	283	133	105	44	150	82	69							68	51
	{ Surrey															87
	{ Winfield															
Delta	{ Delton ^b	838	544	289	125	824	541	289							9	8
	Masonville	152	105	47	13	152	105	47								

^a Unable to ascertain population; organized since census was taken.

^b Township of Delton was divided into townships of Fairbanks and Sack Bay in March, 1872. Returns from Sack Bay but none from Fairbanks.

BIRTHS—DELINQUENT RETURNS.

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[illegible]

* Unorganized County of Gladwin attached to Midland. Population of Grout included in Gladwin.

^b Unable to ascertain population; organized since census was taken.

SEX OF CHILDREN.

In the last Report the study of the conditions controlling the sex of children was commenced, confining the remarks mainly, however, to the evidence derived from the Vital Statistics of this State. The evidence collected since that time in this State and in other localities has been somewhat contradictory, but upon the whole has strengthened a conclusion then arrived at and stated in the last paragraph on page 78, and there seem to be some reasons for believing that, notwithstanding the unreliable character of the evidence upon which it was based, it may prove a true statement of a general fact regarding the birth of human beings everywhere, and, if so, may lead to the determination of the main question. Without giving any especial preference for that view, the evidence on the subject in general will be considered in about the same order as in last report, beginning with the relation of season of the year to sex of children born.

We now have evidence that the exhibits of the relation of births by months in the last Report were not positively reliable. This statement also applies to all statistics of births and deaths in other States which are collected after a year or more time has passed between the time of occurrence and the time of enumeration. The statements of deaths by months in the United States census are also undoubtedly wrong for the same reason. No confidence can be placed in the relative proportion in each month as first returned. For the evidence on this subject the reader is respectfully referred to pages 3 to 12 of this Report. Further discussion of the subject may also be found with the statistics of deaths. The evidence was first published in the introduction to "Statistics of Michigan, 1870." Inasmuch as these corrections are not made in the statistics of the United States census, nor in any other State than this, so far as known to the writer, the same tables and exhibits are again employed here, but, in addition, others are inserted, giving similar material after such correction as the compiler believes to be essential for the purposes of this study. It should be stated, however, that, whether corrected or not, the statistics

of births by months are not as satisfactory as it is hoped they may become when a more perfect law shall provide a better method and a more complete enumeration.

EXHIBIT N.—*Births in Michigan during the year 1871, by Sex and Months, equalized to 30.44 days each.*

SEX.	Year 1871. *	MONTHS OF BIRTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Total	25,985	1706	1884	1951	1927	2009	1926	2132	2490	2555	2434	2864	2591	66
Males	13,590	921	939	1030	969	1042	1008	1104	1303	1308	1268	1281	1388	29
Females.....	12,326	780	890	918	955	960	911	1022	1180	1242	1158	1078	1198	34
Unknown.....	69	5	5	3	3	7	7	6	7	5	8	5	5	3

* The number of births of each sex, and the total number, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. The total number as equalized is seven less than the total number returned.

EXHIBIT O.—*Births in Michigan during the year 1871, by Sex and by Months equalized to 30.44 days each, and by Months the excess of Males over Females. Unknown sex and unknown months excluded.*

	Year 1871.*	MONTHS OF BIRTHS.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Both sexes.....	25,853	1701	1829	1948	1934	2002	1919	2126	2488	2550	2426	2359	2586
Males.....	13,561	921	939	1030	969	1042	1008	1104	1303	1308	1268	1281	1338
Females.....	12,292	780	890	918	955	960	911	1022	1180	1242	1158	1078	1198
Excess of Males over Females.....	1,269	141	49	112	14	82	97	82	123	66	110	268	190

* The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown month and of unknown sex,—132. These and the seven lost in equalizing, added to the number shown in this table make the number as returned by Registration officers.

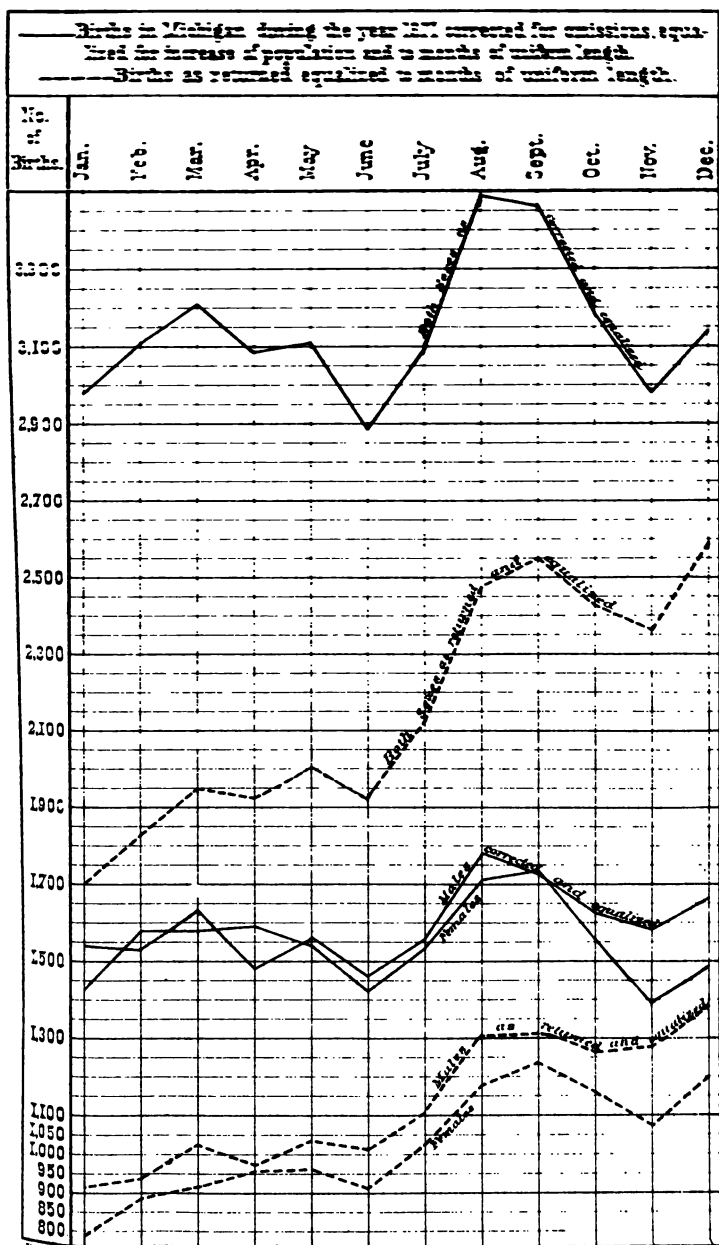
EXHIBIT P.—*Births in Michigan during the year 1871, by Sex and by Months, corrected for Omissions in Enumerating, equalized for Increase of Population during the year covered by the returns, and as thus corrected and equalized for the several months, equalized for months of 30.44 days each.*

SEX.	Year 1871.	YEAR 1871.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Both sexes.....	37,737	2976	3116	3217	3087	3109	2887	3095	3493	3469	3181	2980	3147
Males.....	19,167	1546	1533	1635	1495	1560	1465	1556	1730	1731	1622	1585	1659
Females.....	18,590	1430	1583	1582	1592	1549	1422	1539	1713	1738	1559	1395	1488

In this exhibit the number of births is not the actual number returned; neither is it the number which probably occurred, and which is stated on page 5; nor do the numbers agree with those in Exhibit A on page 6, for the reason that in that exhibit the unknown sex are included. But in this exhibit the births are made just as nearly comparable by months as it is possible for the compiler to make them with the material at his command.

The three lines in Exhibit P are represented by the three continuous lines in Diagram No. 1. The three dashed lines in the diagram represent the first three lines in Exhibit O.

DIAGRAM N^o 1.



The Calvert Lith. Co. Detroit.

Designed by H.B. Baker, M.D.

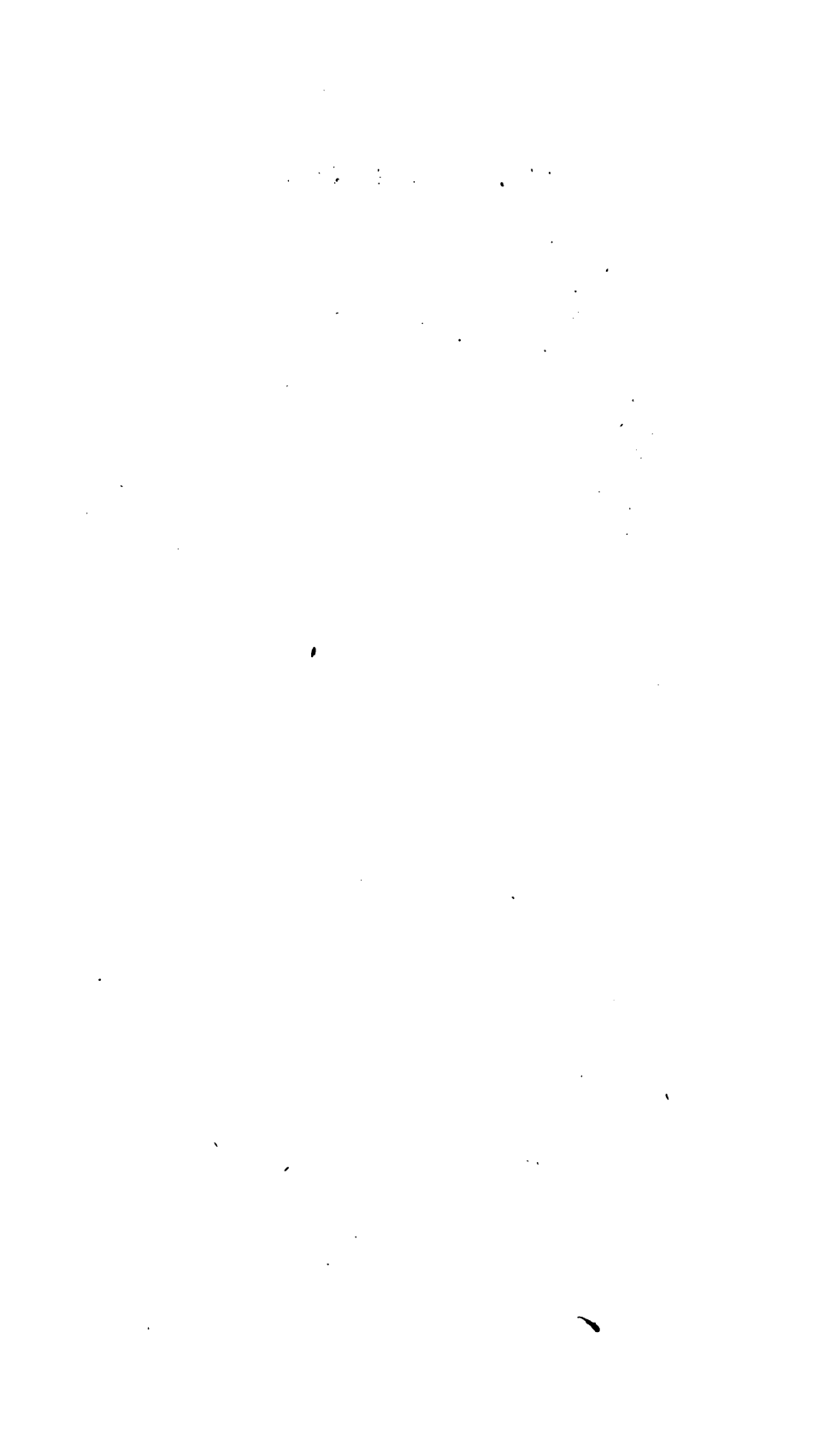


TABLE XXII.—*Exhibiting by Months the Relation between the total number of Conceptions during certain months of the years 1870-1 and the proportion of each Sex Conceived during the same time and Born during the year ending December 31, 1871.*

CONCEPTIONS FOR BIRTHS IN 1871.*

Months of 1870 and 1871 of Conceptions of Births in 1871, in order by Number, the least Number first.		Total Number of Conceptions. ^b	Months of 1870 and 1871, in order by Number of Males to 100 Females, the greatest number first.		No. of Males to 100 Females.
Less than an Average No. of Conceptions.	April.....	1,701	More than an Average proportion of Males.	February, 1871.....	118.88
	May.....	1,829		April..... ^c	117.94
	September.....	1,919		March, 1871.....	115.94
	July.....	1,924		June..... ^c	112.20
	June.....	1,948		September..... ^c	110.64
	August.....	2,002		November.....	110.42
	October.....	2,126		Average.....	110.36
	Average.....	2,154			
More than an Average Number of Conceptions.	February, 1871.....	2,359	Less than an Average proportion of Males.	January, 1871..... ^c	109.49
	January, 1871.....	2,426		August.....	108.54
	November.....	2,483		October.....	108.02
	December.....	2,550		May.....	105.49
	March, 1871.....	2,587		December..... ^c	105.31
				July.....	101.46

* Equalized to months of 30.44 days each, and excluding unknown sex and unknown months.

^b For the purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

^c Exceptions to rule that *more* than an average proportion of males were conceived in months in which *more* than an average total number of conceptions occurred, and *less* than an average proportion of males in months in which *less* than an average number of conceptions occurred.

TABLE XXIII.—*Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births corrected as if enumerated in Months of Occurrence and equalized to Months of uniform length.*

Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.		Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence and equalized to Months of uniform length. Months arranged in order by number of males to 100 females,—greatest number first.	
	Number of Conceptions as corrected and equalized.		No. of Males to 100 Females, Births corrected and equalized.
September	2,817	February, 1871..... ^b	114
April	2,855	March, 1871	112
February, 1871	2,959	April..... ^b	108
July	2,992	January, 1871.....	104
May	3,000	November.....	104
August	3,025	June.....	103
October	3,031	Average.....	103
Average	3,077	September.....	103
June	3,108	October.....	101
March, 1871	3,187	August.....	101
January, 1871	3,148	December..... ^b	100
December	3,421	May	97
November	3,434	July.....	94

^a See note ^b to Table XX.

^b Exceptions to rule that more than an average proportion of males were conceived in months in which more than an average number of conceptions occurred, and less than an average proportion of males in months in which less than an average number of conceptions occurred.

XXIV.—*Exhibiting by Months the Relation between the number of Conceptions, and the total number of Births which occurred in the Months of the Years 1870 and 1871, in which were Conceived the Children born during the Year ending December 31, 1871.*

DEATHS.		CONCEPTIONS.		
1870 and 1871 of Conceptions of Births in 1871, arranged by total number of Births, the least number	Number of Deaths as Equalized.	Months ^a of 1870 and 1871 of Conceptions of Births in 1871, in order by Number, the least Number first.		No. of Conceptions as Equalized. ^b
January, 1871.....	519	Less than an Average No. of Conceptions.	April.....	1,701
February, 1871.....	628		May.....	1,829
March.....	677		September..... ^c	1,919
April.....	688		July..... ^c	1,924
May.....	765		June.....	1,948
June, 1871.....	767		August..... ^c	2,002
July.....	909	More than an Average No. of Conceptions.	October..... ^c	2,126
August.....	910		Average.....	2,154
September.....	947		February, 1871..... ^c	2,359
October.....	1,064		January, 1871..... ^c	2,426
November.....	1,112		November.....	2,483
December.....	1,383		December.....	2,550
January, 1872.....	1,446		March, 1871..... ^c	2,586

^a Months of 30.44 days each, excluding unknown months.

^b to Table XX.

^c to proposition that there were *more* than an average number of conceptions in which *more* than an average number of deaths occurred, and *less* than an average number in months in which *less* than an average number of deaths

TABLE XXIII.—*Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births corrected as if enumerated in Months of Occurrence and equalized to Months of uniform length.*

CONCEPTIONS OF BIRTHS IN 1871. ^a

Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.		Number of Conceptions as corrected and equalized.	Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence and equalized to Months of uniform length. Months arranged in order by number of males to 100 females,—greatest number first.		No. of Males to 100 Females. Births corrected and equalized.
Less than an Average No. of Conceptions.	September.....	2,817	More than an Average proportion of Males.	February, 1871..... ^b	114
	April.....	2,855		March, 1871.....	112
	February, 1871.....	2,959		April..... ^b	108
	July.....	2,992		January, 1871.....	104
	May.....	3,000		November.....	104
	August.....	3,025		June.....	103
	October.....	3,031		Average.....	103
Average.....		3,077			
More than an Average No. of Conceptions.	June.....	3,108	Less than an Average proportion of Males.	September.....	103
	March, 1871.....	3,187		October.....	101
	January, 1871.....	3,148		August.....	101
	December.....	3,421		December..... ^b	100
	November.....	3,434		May.....	97
				July.....	94

^a See note ^b to Table XX.

^b Exceptions to rule that *more* than an average proportion of males were conceived in months in which *more* than an average number of conceptions occurred, and *less* than an average proportion of males in months in which *less* than an average number of conceptions occurred.

TABLE XXIV.—*Exhibiting by Months the Relation between the total number of Conceptions, and the total number of Deaths which occurred in the Months of the Years 1870 and 1871 in which were Conceived the Children born during the year ending December 31, 1871.*

DEATHS.			CONCEPTIONS.		
Months * of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by total number of Deaths, the least number first.		Number of Deaths as Equalized.	Months * of 1870 and 1871 of Conceptions of Births in 1871, in order by Number, the least Number first.		No. of Conceptions as Equalized. ^b
Less than the Average No. of Deaths.	January, 1871.....	519	Less than an Average No. of Conceptions.	April.....	1,701
	February, 1871.....	628		May.....	1,829
	May.....	677		September..... ^c	1,919
	April.....	688		July..... ^c	1,924
	June.....	765		June.....	1,948
	March, 1871.....	767		August..... ^c	2,002
	Average.....	909		October..... ^c	2,126
			Average.....		2,154
More than the Average No. of Deaths.	December.....	910	More than an Average No. of Conceptions.	February, 1871..... ^c	2,359
	November.....	947		January, 1871..... ^c	2,426
	July.....	1,064		November.....	2,483
	October.....	1,112		December.....	2,550
	September.....	1,388		March, 1871..... ^c	2,586
	August.....	1,446			

* Equalized to months of 30.44 days each, excluding unknown months.

^b See note (b) to Table XX.

^c Exceptions to proposition that there were *more* than an average number of conceptions in months in which *more* than an average number of deaths occurred, and *less* than an average number in months in which *less* than an average number of deaths occurred.

TABLE XXV.—*Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths. Deaths, and Births from which Conceptions are estimated, being corrected as if enumerated in Months of Occurrence, and equalized to Months of uniform length.*

DEATHS.			CONCEPTIONS. *		
Months of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by number of Deaths, the least number first. Deaths corrected as if enumerated in Months of occurrence, and equalized to months of uniform length.		No. of Deaths as Corrected and Equalized.	Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if enumerated in Months of occurrence, and equalized to Months of uniform length. Months arranged in order by number, the least number first.		No. of Conceptions as corrected and equalized.
Less than the Average Number of Deaths.	January, 1871.....	1,089	Less than an Average No. of Conceptions.	September.....	2,817
	February, 1871.....	1,217		April..... ^b	2,855
	December.....	1,282		February, 1871..... ^b	2,959
	May.....	1,340		July.....	2,992
	November.....	1,411		May..... ^b	3,000
	March, 1871.....	1,488		August.....	3,025
	June.....	1,458		October.....	3,081
	April.....	1,474		Average.....	3,077
Average.....		1,594	More than an Average No. of Conceptions.	June.....	3,108
More than the Average No. of Deaths.	October.....	1,748		March, 1871.....	3,137
	July.....	1,984		January, 1871.....	3,148
	September.....	2,287		December.....	3,421
	August.....	2,511		November.....	3,484

* See note ^b to Table XX.

^b Exceptions to rule that there were *more* than an average number of conceptions in months in which *less* than an average number of deaths occurred, and *less* than an average number of conceptions in months in which *more* than an average number of deaths occurred.

The evidence in Tables XXII. to XXVII., inclusive, will be seen to be quite different from that in last Report. It shows, what has been previously remarked, the necessity of examining these statistics for a series of years before basing upon them definite and fixed opinions. It has been ascertained, also, that our knowledge of the proportion of births by months is quite uncertain, and this makes it important to examine this question of sex of children in connection with

some other period of time. It has, therefore, been studied by years, and some of the results may be seen in Exhibit R and remarks preceding. Some other evidence, derived from a study of the influence of race, nativity, war, epidemic cholera, etc., has been collected, and may be seen in Table XXVIII., Exhibit Q, and remarks following.

TABLE XXVI.—*Exhibiting by Months the Relation between the number of Deaths and the proportion of each Sex Conceived during the same Months of the years 1870 and 1871; Births and Deaths from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence and Equalized to Months of uniform length.*

DEATHS.			CONCEPTIONS, a		
Months of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by Number of Deaths, the least Number first. Deaths corrected as if Enumerated in Months of Occurrence, and equalized to Months of uniform length.		No. of Deaths as Corrected and Equalized.	Months of 1870 and 1871 of Conceptions of Births in 1871, estimated from Births corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length. Months arranged in order by Number of Males to 100 Females, greatest Number first.		No. of Males to 100 Females, Births Corrected and Equalized.
Less than the Average No. of Deaths.	January, 1871.....	1,039	More than an Average proportion of Males.	February, 1871.....	114
	February, 1871.....	1,217		March, 1871.....	112
	December.....	1,282		April.....	108
	May.....	1,340		January, 1871.....	104
	November.....	1,411		November.....	104
	March, 1871.....	1,438		June.....	103
	June.....	1,458	Average.....		103
	April.....	1,474			
Average.....		1,594	Less than an Average proportion of Males.	September.....	103
More than the Average No. of Deaths.	October.....	1,748		October.....	101
	July.....	1,934		August.....	101
	September.....	2,287		December..... ^b	100
	August.....	2,511		May..... ^b	97
				July.....	94

^a See Note b to Table XX.

^b Exceptions to rule that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

TABLE XXVII.—*Exhibiting, by Months, the Relation between the Total Number of Deaths, and the proportion of each Sex Conceived during the same Months of the Years 1870 and 1871, and Born during the Year ending December 31, 1871.*

DEATHS.		CONCEPTIONS. ^b	
Months ^a of 1870 and 1871 of Conceptions of Births in 1871, arranged in order by Total Number of Deaths, the least Number first.	Total No. of Deaths as Equalized.	Months ^a of 1870 and 1871 in order by Number of Males to 100 females, the greatest Number first.	No. of Males to 100 Females.
Less than the Average Number of Deaths.		More than an Average proportion of Males.	
January, 1871.....	519	January, 1871.....	118.08
February, 1871.....	628	April.....	114.98
May.....	677	July.....*	114.43
April.....	688	March, 1871.....	112.20
June.....	765	October.....*	110.04
March, 1871.....	767	Average.....	109.08
Average.....	909	Less than an average proportion of Males.	
More than the Average No. of Deaths.		September.....	105.81
December.....	910	August.....	108.07
November.....	947	November.....	107.05
July.....	1,064	February, 1871.....*	105.50
October.....	1,112	May.....*	105.36
September.....	1,388	June.....*	103.88
August.....	1,446	December.....	101.55

^a Equalized to months of 30.44 days each, excluding unknown months.

^b See note ^b to Table XX.

* Exceptions to rule that *more* than an average proportion of males were conceived in months in which *less* than an average number of deaths occurred, and *less* than an average proportion of males in months in which *more* than an average number of deaths occurred.

TABLE XXVIII.—*Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Born in Michigan during the year 1871, the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, and thus exhibiting the influence of Parent-Nativity upon Sex of Children.*

NATIVITY OF PARENTS.	BIRTHS 1871. *		BOYS TO 100 GIRLS.			
	Males.	Fem'les.	Total * Births.	Twins.	Illegitimate.	Still-born.
All Nativities.....	13,596	12,327	110.29	112.85	80.00	162.96
Both Parents Native.....	5,848	5,512	106.09	97.01	-----	210.00
Both Parents Foreign.....	4,680	4,029	116.15	146.51	-----	166.66
Foreign Father, Mother Native..	1,143	964	113.56	88.23	-----	33.33
Foreign Mother, Father Native..	608	606	100.38	45.45	-----	100.00
One or Both Unknown.....	1,317	1,216	108.30	125.00	-----	150.00
Mothers.. { Native.....	7,069	6,561	107.74	96.02	117.64	176.92
Mothers.. { Foreign.....	5,444	4,784	113.79	135.05	78.04	160.00
Mothers.. { Unknown.....	1,083	982	110.28	126.66	32.00	125.00
Fathers.. { Native.....	6,913	6,532	105.88	93.10	116.66	191.66
Fathers.. { Foreign.....	6,227	5,307	117.83	136.89	40.00	126.66
Fathers.. { Unknown.....	456	488	93.44	100.00	82.19	^b
One or Both Native.....	8,134	7,581	107.29	92.59	-----	166.66
One or Both Foreign.....	6,991	6,062	115.32	128.07	-----	125.00
Both Unknown.....	222	254	87.40	100.00	-----	^b
Same Country.....	10,528	9,541	110.35	115.09	-----	218.75
Different Country.....	1,751	1,570	111.53	88.88	-----	42.85
Same American or Foreign State.....	-----	-----	-----	120.64	-----	160.00
Different American or For'n State.....	-----	-----	-----	106.15	-----	300.00

* Excluding unknown sex.

^b No females.

EXHIBIT Q.—Influence of Parent-Nativity upon Sex of Children, as shown by the Number of Boys to 100 Girls among all Children and among Twins, Illegitimate, and Still-born Children Born in Michigan during the year 1870.

NATIVITY OF PARENTS.	BIRTHS 1870. *		BOYS TO 100 GIRLS.			
	Males.	Fem'les.	Total Births. *	Twins.	Illegitimate.	Still-born.
All Nativities.....	13,846	12,726	108.80	107.14	108.10	162.50
Both Parents Native.....	6,463	5,904	109.46	108.02	.....	127.27
Both Parents Foreign.....	4,488	4,101	109.81	100.00	.....	320.00
Foreign Father, Mother Native..	1,144	1,098	104.18	92.80	.....	200.00
Foreign Mother, Father Native..	699	625	111.84	211.11	.....	150.00
Mothers. { Native.....	7,607	7,002	108.64	105.85	107.81	142.85
{ Foreign.....	5,182	4,726	109.65	109.17	95.23	271.42
Fathers. { Native.....	7,162	6,529	109.69	113.45	135.29	180.77
{ Foreign.....	5,627	5,199	108.23	98.41	45.45	275.00
One or Both Native.....	8,306	7,627	108.90	110.66	.....	143.75
One or Both Foreign.....	6,326	5,824	108.62	105.92	.....	250.00
Same Country.....	10,946	10,005	109.41	104.96	.....	187.50
Different Country.....	1,848	1,723	106.96	122.85	.....	180.00
Same American or Foreign State.	.....	.....	.....	100.00	.....	135.71
Different American or For'n State	.....	.....	.....	106.66	.....	450.00
Unknown.....	1,057	998	105.91	108.00	113.04	.....

* Unknown sex excluded.

Table XXVIII. and exhibit following contain, in tabular form, such material as was stated in the remarks in last Report, and they embody some material not then collected in a convenient form. They are planned after a table published by J. Stockton Hough, M. D., in the "Philadelphia Medical Times" of December 27, 1873.

For the year 1871 a less number of births were returned

than for the previous year, while the proportion of male children was increased from 108.80 to 110.29 boys to 100 girls. The increased proportion of males was greater among twins, being from 107.14 in 1870 to 112.85 boys to 100 girls in 1871.

The number of illegitimate children returned for 1871 was somewhat greater than for 1870. The proportion of males was much less, being 80 boys to 100 girls, while in 1870 there were 108.10.

This evidence is in the same direction as that which led to the statement on page 78 of last Report that, "It seems a fair inference from the evidence in Table XX., that causes tending to increase the birth-rate tend also to increase the proportion of female offspring, this being equivalent to decreasing the proportion of males."

There was other similar evidence in the last Report, which was not then considered as sufficiently reliable to notice. The greater than average proportion of male children of persons of African descent, while the birth-rate of such persons was smaller than the average, was evidence in this direction, as was also the less than average proportion of male children of Indian parents, while the birth-rate among Indians was greater than the average. This may be seen on page 24 of last Report. The evidence is again the same in Table V. of this report, as may be seen by referring to pages 30 to 33.

One more fact, of a different kind, but apparently tending to the same conclusion, may be referred to in this connection. It will be seen by Exhibit R that the birth-rate was materially diminished, in all the cities and States represented, during the war of 1861-5. On page xxii., "Statistics of Mich., 1870," in speaking of the diminished birth-rate in Michigan during the war, the writer remarked: "Some idea of the decrease in the rate may be gained by considering, first, that the per cent. of increase since 1860 of the total population, at all ages, was undoubtedly diminished by the low birth-rate; second, that the per cent. of increase of males aged 1 to 5 fell short of the

average increase of males at all ages by nearly 13 per cent., while the per cent. of increase of females aged 1 to 5 fell short of the average of all females by over 17 per cent." Although it is not proven, we may infer from these facts that while the war diminished the birth-rate in Michigan it diminished the births of females to a greater extent than the births of males.

As long ago as 1831, Gouverneur Emerson, M. D., of Philadelphia, "entered into some investigations with the view of ascertaining whether influences might be detected in our locality affecting conceptions. This had been recently done in regard to Paris, by M. Villermé, and the results we arrived at were in singular accordance with his, showing that the population of Philadelphia was subjected to agencies tending to operate unfavorably upon its increase from reproduction." But Dr. Emerson assumed a point which yet remains to be proven, namely, that the proportion of male children is increased or diminished by whatever causes increase or diminish the birth-rate. It will be seen that the writer has collected evidence upon this point, as regards births in Michigan, and, thus far, precisely the reverse of Dr. Emerson's proposition seems most probable.

Dr. Emerson found that whereas in Philadelphia during several years preceding 1833, "the preponderance of male over female births amounted to several hundreds per annum, being 6.29 per cent. for the whole decennial period," he was "surprised to find the amount for 1833 reduced to only 38," or, as I compute it, about 101 males to 100 females. "In estimating the births for the months of April and May, 1833, we found that the males amounted to 532 and the females to 590, showing a *female* excess of 58." * * * * "Now these months include a period nine months after the time when the cholera prevailed, namely, August and September, 1832." Dr. Emerson certainly shows a decrease of the proportion of males born nine months after the prevalence of cholera, but it seems wonderful that he should have so entirely overlooked the other

facts connected with the births as to have concluded that the total birth-rate was lessened. Referring to M. Villermé of Paris, he says, "the results we arrived at were in singular accordance with his." An examination of the statistics which he presented reveals the fact that, so far as they go, they support a proposition exactly the reverse of that which is shadowed forth, but not definitely stated, in Dr. Emerson's paper.*

When the last Report for this State was made the compiler had not seen the original paper by Dr. Emerson, but relied upon statements of those who had seen it. At that time the writer remarked that the evidence which he had collected "seems to be in a direction opposite to some collected elsewhere, if we suppose the generalization embodied in the following quotation^a to have been sustained by the facts proven." Since that time the compiler has received from its venerable author^b a copy of the original paper, and a careful study thereof has convinced him of the truth of the main proposition of Dr. Emerson,—the one mentioned in the title of the paper, namely, that there were certain "causes operative in determining the proportions of the sexes at birth," and that during the cholera more than the average proportion of females were conceived; but that the total birth-rate was lessened does not appear to be true. Dr. Emerson himself says, on page 79,^c that "the total of births during the year 1833 was greater than that of the preceding year." He might also have said that it was greater than that of the succeeding year, but he immediately adds: "Supposing that some error might exist in the calculations for this year, we consulted the original records at the Health Office, and satisfied ourselves that the computations had been correctly made." On page 80^c he says: "It is proper to state that a slight visitation of epidemic cholera occurred in 1834 chiefly in the month of October, and that the returns of births which took

* On the causes operative in determining the proportions of the sexes at birth. By Gouverneur Emerson, M. D., in *American Journal of the Medical Sciences*, July, 1848, pp. 18-85.

^a From Registration Report of Kentucky for the year 1853.

^b Dr. Emerson died July 2, 1874.

^c *American Journal of the Medical Sciences*, July, 1848.

place in June, 1835, show a considerable falling off in the male births." Here again he might have added that the statistics show that the number of births for 1835 was greater than for the year preceding or the year succeeding. These facts are entirely in accordance with the proposition on page 78 of our last Report, for here are two cases of a decrease in the proportion of male children attending an increase of the total birth-rate. That cholera should increase the birth-rate seems very strange, at first thought, and it may not be true that it always does. There are, however, some facts connected with the influence of epidemic cholera which seem to explain the matter somewhat, but which, if discussed here, would hinder the question under consideration. Dr. Emerson continues: "In the absence of the necessary data in our own country, we appealed to the ample and accurate records of Paris, where, as is well known, the malignant cholera committed great ravages in 1832. Here we found in a mass of no less than 33,367 births,* a similar reduction in the proportion of the males, discovered in the Philadelphia reports." Here again he might have added that, although the proportion of males was diminished, the total birth-rate was increased, for he states the number of births in Paris in 1832 as 31,730, which was 1,637 less than in 1833.

Dr. Wm. Farr states that "the population of England suffered in 1854 from epidemic cholera, which broke out in the previous year (1853), and in 1854 destroyed 20,097 lives."^b Turning to the first page of the Registrar General's Report, I find that the number of births in 1854 were increased, and the birth-rate was greater than the average during the years 1850 to 1854 inclusive, as determined by computing the per cent. of births to the population there given. On page xiii. of the same Report, it will be seen that the proportion of males was 104.4 males to 100 females, while the average for the years 1850 to 1854 inclusive was 104.6 males to 100 females. This

* During the year 1833.

^b Page 65 Report of Registrar General, 1854.

is one more case where the cholera was followed by a slight decrease of the proportion of male children and a slight increase of the total birth-rate. The writer regrets that he cannot trace the effects of the cholera in England in 1854 on the birth-rate in 1855, but he has no Report for that year.

Returning to the statistics of births in Philadelphia, as given by Dr. Emerson, the writer has computed the number of males to 100 females born in each of the years 1820 to 1840, inclusive, also the average number during the whole period of twenty years. Inasmuch as the number of inhabitants in all of these years is not known, there seems to be no better method whereby to learn the comparative birth-rate in the several years than to compare each year with the one immediately preceding and succeeding. This has been done for the births in Philadelphia, and for those in other cities and States so far as statistics were at hand, adding in each instance the total births during three years and dividing by three to obtain the average number of births, then noting in the column of remarks whether the births recorded for the central year were more or less than the average number thus obtained, at the same time stating whether these contained more or less than the average proportion of males, using for this purpose the average proportion of males during the whole series of years observed. The results of this study appear in Exhibit R. If we were to rest the case upon the evidence of the births in Philadelphia during the years 1820 to 1840 alone, it would appear certain that more than an average birth-rate is attended with an excess of female children, and *vice versa*. In those twenty years there were only four exceptions to this rule. Such strong evidence in this direction was indeed surprising to the writer when worked out from the statistics in Dr. Emerson's paper, which, for the last quarter of a century, has been quoted as upholding precisely the opposite of this view.

Since the last report was printed, Dr. J. Stockton Hough of

Philadelphia has enunciated a law on this subject.* He says: "It is a law that the greater the fecundity the greater the proportion of male births."^b It will be noticed that this is the same view apparently held by Dr. Emerson, and so frequently referred to during the last twenty-five years. It is not in accordance with the facts stated in Dr. Emerson's paper, as I have attempted to show, but it is supported by the published statistics of births in Philadelphia during the years 1861 to 1873, inclusive, as will be seen by an examination of these statistics as they appear in Exhibit R in this Report. But these last Philadelphia statistics cover a period of only thirteen years, and that in only one city, a very small part of the world comparatively, the whole number of births during those years being only 221,301. This experience is entirely too limited to sustain so important a law, especially when the statistics of births in the same city during twenty years in the past show much stronger evidence in an opposite direction.

In Exhibit R may be seen the evidence on this point, so far as appears from the statistics of births in certain cities, States, and countries for different years, which aggregate 138 separate cases, some being for the same years in different localities. In these 138 cases the rule stated by the writer holds true in 80 cases, does not hold true in 51 cases, and in 7 cases there is doubt. Counting the doubtful cases as all against the proposition, there is a clear majority in its favor. The number of births studied in Exhibit R is 1,396,223, exclusive of 31,496 in Providence studied separately, but included in those for the State of Rhode Island. If the births in England are included the number is 4,476,318. This statement of the number of births considered, does not include the large number of births in Paris referred to as supporting the view, when speaking of the influence of cholera upon the birth-rate; neither does it

* Philadelphia Medical Times, December 27, 1873, p. 198, referring to New York Medical Record, June 16 and July 15, 1873, p. 9.

^b Page 18 of paper read before and published by Social Science Association of Philadelphia, 1874.

include the many thousands of births in Michigan during the war of 1861-5, which exhibited such an influence during the war as to support the view first stated by the writer.

Statistics of births are as yet so imperfect that it becomes one to be extremely cautious about enunciating laws based upon such statistics. It is not probable that all births are recorded in any country, State or city. As stated on page 5 of this Report, about 45 per cent. should be added to the births returned in Michigan for the year 1871, in order to exhibit the number which probably occurred during that year.

It has generally been assumed that, although not all births were recorded, the proportion of the sexes might still be correct. There are some facts which bear upon this point which it may be well to state in this connection. During the first year of life many more males die than females. In Michigan, for instance, the proportion during the year 1870 was 121.34, and during the year 1871 it was 129.55 males to 100 females. Therefore if omissions occur in enumerating births because of time passing between their occurrence and enumeration, more males than females would be omitted, for the reason that enumerators do not collect as large a proportion of deaths as they do of births, and many do not record births when the child has died soon after birth. It seems to follow that, other circumstances equal, a less complete than an average collection of births would include a less than average proportion of males, while a more complete enumeration than the average would include more than an average proportion of males. If this is true, then there is a general cause acting upon the enumeration of births in such a way as to tend to neutralize and destroy such evidence as is collected in Exhibit R, and which evidence might, perhaps, be stronger except for this reason. On page 78, Report of Board of Health of Philadelphia for the year 1872, the compiler remarks: "Notwithstanding a gratifying increase in the returns of births and the evidence of improvement in the collection of statistics, a very large proportion of

births take place annually that are not reported for registration." Now it is quite possible that the actual fluctuations in the birth-rate in Philadelphia during the years 1861-1873 may have been less than the fluctuations in completeness of registration, in which case we might expect to find just what appears for that city during those years in Exhibit R, namely, that a greater than average number of births was, as a rule, attended with a greater than average proportion of males, which is exactly the opposite of the evidence of the exhibit as a whole. As the exhibit includes nearly four and one-half millions of births, its evidence is stronger than the part referring to Philadelphia alone.

Another disturbing fact relative to the proportion of the sexes should be considered in this connection. Statisticians do not seem to be entirely exempt from the general tendency of mankind to tell more than is known. In a Registration Report now before me the compiler remarks: "It will be seen that no child has been returned [tabulated?] as of 'unknown' sex. This is not precisely in accordance with the face of the assessor's books, * * * but it was not considered advisable to take up so much space in our printed reports with empty columns of 'unknown.' The cases in which the sex was not stated * * * were divided in the proportion of 11 males to 10 females." Returns from one county came in after the tables had been made up, and as the sex was not specified "and the proportion of males to females throughout the State ascertained, that proportion was adopted for the births in that county." This would intensify the evidence in the direction determined by the counties first compiled, whereas it is possible that the real evidence of the births in the last counties heard from might be in an opposite direction. It ought to be entirely unnecessary to remark that there is not a great probability of arriving at the exact truth through such methods of compilation. By examining Exhibit R, it will be seen that in some cases no mention is made of any unknown sex. It is possible that other

statisticians than the one just quoted have vitiated their work in the same manner. It is proper to state, however, that the births referred to as compiled by the writer just quoted are not included in Exhibit R.

One more disturbing factor in Exhibit R should be mentioned, that is the influence of the war of 1861-5, which increased the birth-rate throughout the United States during the year 1861 and decreased it during the years 1862-5 inclusive. The method employed in Exhibit R to find the average birth-rate was, as stated in the foot-note c, to add the births for the year preceding and succeeding and divide by three, and this plan was adhered to throughout. It is quite possible that the evidence in the exhibit might be stronger were it not for the disturbing influence of the war; for during the years 1862-5, inclusive, the birth-rate was decreased, but by the method adopted in finding the average, in certain cases some of these years appear to have a greater than average birth-rate.

It will be seen by comparing Exhibit T with Exhibit W that, in a majority of the cases, the proportion of males born during the year 1861 was greater than the average for all years; and by comparing Exhibit U with Exhibit W, it will be seen that the reverse was true of the births during the years 1862-5, inclusive. This evidence seems conclusive that the war decreased the birth-rate and at the same time decreased the births of females in a greater proportion than the births of males. It does not necessarily follow from this alone that all causes tending to decrease the birth-rate tend also to decrease the proportion of female children, but this was indicated in the last Report, and the view is certainly supported by Exhibit R. We have seen that cholera seems to increase the proportion of female children, and we have found that it also increases the total birth-rate. This evidence supports conversely the proposition, which, stated entire, is as follows: Causes tending to increase the birth-rate tend also to increase the proportion of female offspring, while causes which decrease the birth-rate

increase the proportion of male offspring, by decreasing the female children to a greater extent than the male children.

EXHIBIT R.—*Proportion of the Sexes at Birth, and the Relation which that proportion bears to an Increased or Diminished Birth-rate, as appears by the Births in the Cities of New York, Philadelphia, and Providence; the States of Vermont, Massachusetts, Rhode Island, Connecticut, and Michigan, and in England, during the Years specified in each case.*

YEAR.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Femal's	Remarks.*	
City of New York.	1853	4,899	4,379	9	9,287	111.8	{ Less than Av. Births, more than Av. Males.
	1854	8,816	8,246	14	17,076	106.9	{ More than Av. Births, less than Av. Males.
	1855	6,961	6,399	11	13,371	108.7	{ Less than Av. Births, more than Av. Males.
	1856	8,182	7,400	21	15,603	110.5	{ More than Av. Births, more than Av. Males.*
	1857	9,063	8,602	15	17,680	105.3	{ More than Av. Births, less than Av. Males.
	1858	6,380	5,739	13	12,132	111.1	{ Less than Av. Births, more than Av. Males.
	1859	4,219	3,880	20	8,119	108.7	{ Less than Av. Births, more than Av. Males.
	1860	3,154	2,833	11	5,998	111.3	{ Less than Av. Births, more than Av. Males.
	1861	5,072	4,748	49	9,869	106.8	{ More than Av. Births, less than Av. Males.
	1862	3,927	3,693	13	7,633	106.3	{ Less than Av. Births, less than Av. Males.*
	1863	3,287	3,071	15	6,373	107.0	{ Less than Av. Births, less than Av. Males.*
	1864	2,968	2,708	13	5,689	109.6	{ Less than Av. Births, more than Av. Males.
	1865	61	50	-----	111	122.0	(No proper return.)
	1866	5,202	4,905	10	10,117	106.0	----- (?) -----
	1867	6,397	6,164	8	12,569	103.7	{ More than Av. Births, less than Av. Males.
	1868	6,581	6,186	5	12,672	106.4	{ Less than Av. Births, less than Av. Males.*
	1869	7,096	6,885	16	13,947	103.8	{ More than Av. Births, less than Av. Males.
	1870	7,560	6,910	54	14,524	109.4	{ Less than Av. Births, more than Av. Males.
	1871	10,749	10,082	40	20,821	107.1	{ More than Av. Births, less than Av. Males.
	1872	11,282	10,763	23	22,068	104.8	{ More than Av. Births, less than Av. Males.
1853 to 1872, Inc. ^b	121,745	113,443	360	235,548	107.3	{ 19 cases, 4 exceptions, 1 doubtful.	

* The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

^b Except 1865.

* Exceptions to rule that a more than average number of births is attended with a less than average proportion of males, and vice versa.

EXHIBIT R.—CONTINUED.

YEAR.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females	Remarks. ^a
1820	1,709	1,501	-----	3,201	113.86	^b -----
1821	2,680	2,417	-----	5,047	108.81	Less than Av. Births, more than Av. Males.
1822	3,021	2,701	-----	5,722	111.85	More than Av. Births, less than Av. Males.*
1823	2,977	2,836	-----	5,813	104.97	More than Av. Births, less than Av. Males.
1824	3,062	2,771	-----	5,833	110.50	Less than Av. Births, more than Av. Males.
1825	3,444	3,181	-----	6,625	108.27	More than Av. Births, more than Av. Males.*
1826	3,526	3,219	-----	6,745	109.54	Less than Av. Births, More than Av. Males.
1827	3,581	3,452	-----	7,033	108.74	Increase of Births over previous year and over Av.—very few Males.
1828	3,694	3,506	-----	7,200	105.86	Births increased over Av.—few Males.
1829	3,638	3,357	-----	6,995	108.37	Less than Av. birth-rate —more Males than Av.
1830	3,996	3,632	-----	7,628	110.02	A marked exception,* more than Av. birth- rate and more than Av. of Males.
1831	3,787	3,555	-----	7,342	106.53	Less than Av. Births, less than Av. Males.*
1832	3,534	3,419	-----	7,253	112.14	Less than Av. Births, more than Av. Males.
1833	3,840	3,802	-----	7,642	101.00	More than Av. Births, less than Av. Males.
1834	3,987	3,635	-----	7,572	108.31	Less than Av. Births, more than Av. Males.
1835	4,041	3,815	-----	7,856	105.92	More than Av. Births, less than Av. Males.
1836	3,864	3,544	-----	7,408	109.03	Less than Av. Births, more than Av. Males.
1837	4,235	3,953	-----	8,188	107.13	More than Av. Births, less than Av. Males.
1838	3,982	3,798	-----	7,780	104.84	More than Av. Births, less than Av. Males.
1839	3,769	3,493	-----	7,262	107.90	Less than Av. Births, more than Av. Males.
1840	4,223	4,010	-----	8,233	105.31	More than Av. Births, less than Av. Males.
1820 to 1840 Incl.	74,790	69,597	-----	144,387	107.46	20 cases, 4 exceptions.

^a The average births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

^b Only nine months of this year are included in the returns.

* Exceptions to rule that *more* than an average number of births is attended with *less* than the average proportion of males, and *less* than the average number of births with *more* than an average proportion of males.

EXHIBIT R.—CONTINUED.

YEAR.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females	Remarks. ^a
City of Philadelphia.	1860					Only collected months of year
	1861	9,008	8,263	17,271	109.0	More than Av.
	1862	7,609	7,132	14,741	106.6	Less than Av.
	1863	8,042	7,251	15,293	110.9	Less than Av.
	1864	8,237	7,354	15,591	112.0	More than Av.
	1865	8,187	7,241	15,428	113.0	More than Av.
	1866	9,196	8,241	17,437	111.5	More than Av.
	1867	8,897	8,110	17,007	109.7	Less than Av.
	1868	8,988	8,271	17,259	108.6	less than Av. M
	1869	8,861	8,099	16,960	109.4	More than Av.
	1870	9,134	8,060	17,194	113.3	Less than Av. M
	1871	9,657	8,689	18,346	111.1	Less than Av.
	1872	10,551	9,521	20,072	110.8	more than Av.
	1873	9,845	8,857	18,702	111.1	More than Av.
1861 to 1873, Incl.						13 cases, 7 exco 1 doubtful.
City of Providence.	1854	711	658	1,369	108.0	Less than Av.
	1855	807	793	1,600	101.7	more than Av.
	1856	891	784	1,675	113.6	More than Av.
	1857	872	816	1,688	106.8	less than Av. M
	1858	890	834	1,724	106.7	More than Av.
	1859	825	768	1,593	107.4	Less than Av.
	1860	809	839	1,648	96.4	more than Av.
	1861	936	789	1,725	118.6	Less than Av.
	1862	791	738	1,529	107.2	More than Av.
	1863	689	618	1,307	111.4	More than Av.
	1864	663	681	1,344	97.3	Less than Av.
	1865	691	607	1,298	113.8	more than Av.
	1866	849	783	1,632	108.4	More than Av.

^a The average of births is obtained by adding the births for the year preceed
succeeding to the births for the year in question and dividing by three; the
proportion of males used is the average for the whole series of years considered
particular locality.

* Exceptions to rule that a more than average number of births is attended
less than average proportion of males, and *vice versa*.

EXHIBIT R.—CONTINUED.

YEAR.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females	Remarks. *	
Providence.—Con.	1867	830	794	-----	1,624	104.5	{ Less than Av. Births, less than Av. Males.*
	1868	944	922	-----	1,866	102.4	{ More than Av. Births, less than Av. Males.
	1869	945	874	-----	1,819	108.1	{ Less than Av. Births, more than Av. Males.
	1870	967	922	-----	1,889	104.8	----- (?) -----
	1871	956	1,004	-----	1,960	95.6	{ Less than Av. Births, less than Av. Males.*
	1872	1,079	1,127	-----	2,206	95.7	{ More than Av. Births, less than Av. Males.
1854 to 1872, Incl.	16,145	15,851	-----	31,496	105.2	{ 19 cases, 8 exceptions, 1 doubtful.	
Vermont.	1857	3,283	3,071	58	6,412	106.9	----- (?) -----
	1858	3,294	3,142	41	6,477	104.8	{ Less than Av. Births, less than Av. Males.*
	1859	3,351	3,155	39	6,545	106.2	{ More than Av. Births, more than Av. Males.*
	1860	3,255	3,186	10	6,451	102.1	{ Less than Av. Births, less than Av. Males.*
	1861	3,354	3,170	43	6,567	105.8	{ More than Av. Births, less than Av. Males.
	1862	2,831	2,650	24	5,505	106.8	{ Less than Av. Births, more than Av. Males.
	1863	2,719	2,624	26	5,369	108.6	{ More than Av. Births, less than Av. Males.
	1864	2,439	2,264	50	4,753	107.7	{ Less than Av. Births, More than Av. Males.
	1865	2,761	2,564	28	5,358	107.6	{ Less than Av. Births, more than Av. Males.
	1866	3,376	3,113	43	6,532	108.4	{ More than Av. Births, more than Av. Males.*
	1867	3,272	3,144	52	6,468	104.0	{ Less than Av. Births, less than Av. Males.*
	1868	3,373	3,605	32	7,510	107.4	{ More than Av. Births, more than Av. Males.*
	1869	3,760	3,599	22	7,381	104.4	{ Less than Av. Births, less than Av. Males.*
1857 to 1870, Inc.	45,576	42,932	486	88,994	106.1	{ 14 cases, 7 exceptions, 2 doubtful.	
Massachusetts.	1849	13,829	12,263	171	25,763	108.6	{ Less than Av. Births, more than Av. Males.
	1850	14,137	13,392	135	27,664	105.5	{ More than Av. Births, less than Av. Males.
	1851	14,949	13,613	119	28,681	109.8	{ Less than Av. Births, more than Av. Males.
	1852	15,246	14,432	124	29,802	105.6	{ More than Av. Births, less than Av. Males.
	1853	15,798	14,965	157	30,920	105.5	----- (?) -----
1849 to 1853, Incl.	73,459	68,665	706	142,830	106.9	{ 5 cases, no exceptions, 1 doubtful.	

* The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

* Exceptions to proposition that a *more* than average number of births is attended with a *less* than average proportion of males, and *vice versa*.

EXHIBIT R.—CONTINUED.

YEARS.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females	Remarks.*	
Massachusetts.	1865	15,623	14,554	72	30,249	107.3	{ Less than Av. I more than Av. M
	1866	17,394	16,608	88	34,085	104.7	{ More than Av. I less than Av. M
	1867	17,859	17,140	63	35,062	104.1	{ Less than Av. I less than Av. M
	1868	18,571	17,574	48	36,193	105.6	{ More than Av. I less than Av. M
	1869	18,606	17,500	35	36,141	106.3	{ Less than Av. I more than Av. M
	1870	19,803	18,434	22	38,259	107.4	{ Probably more th Births, more th Males.*
1865 to 1870, Incl.	107,856	101,805	328	209,989	105.9	6 cases, 2 excepti	
Rhode Island.	1854	1,081	1,003	21	2,105	107.7	{ Less than Av. I more than Av. M
	1855	1,492	1,421	18	2,926	104.9	{ More than Av. I less than Av. M
	1856	1,479	1,407	20	2,906	105.1	{ Less than Av. I less than Av. M
	1857	2,057	1,948	21	4,026	105.5	{ More than Av. I less than Av. M
	1858	2,200	2,058	10	4,268	107.1	{ More than Av. I more than Av. M
	1859	2,209	2,097	---	4,306?	105.3	{ Less than Av. I less than Av. M
	1860	2,263	2,212	18	4,498	102.3	{ Less than Av. I less than Av. M
	1861	2,531	2,291	18	4,840	110.4	{ More than Av. I more than Av. M
	1862	2,152	1,967	6	4,125	109.4	{ Less than Av. I more than Av. M
	1863	1,892	1,738	11	3,691	105.8	{ Less than Av. I more than Av. M
	1864	1,949	1,942	1	3,892	100.3	{ More than Av. I less than Av. M
	1865	2,096	1,857	2	3,955	112.8	{ Less than Av. I more than Av. M
	1866	2,546	2,356	-----	4,902	108.0	{ More than Av. I more than Av. M
	1867	2,655	2,464	8	5,127	107.7	{ Less than Av. I more than Av. M
	1868	2,745	2,627	-----	5,372	104.4	{ More than Av. I less than Av. M
	1869	2,685	2,560	-----	5,245	104.8	{ Less than Av. I less than Av. M
	1870	2,679	2,536	---	5,215	105.6	{ Less than Av. I Av. Males.*
	1871	2,878	2,800	---	5,678	102.8	{ Less than Av. I less than Av. M
	1872	3,085	3,058	-----	6,143	100.8	{ More than Av. I less than Av. M
1854 to 1872, Incl.	42,674	40,387	149	83,210	105.6	19 cases, 9 excepti	

* The average of births is obtained by adding the births for the year preceding succeeding to the births for the year in question, and dividing by three; the average proportion of males used is the average for the whole series of years considered the particular locality.

* Exceptions to rule that a more than average number of births is attended by less than average proportion of males, and vice versa.

EXHIBIT R.—CONTINUED.

YEAR.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females	Remarks.*	
Connecticut.	1849	3,617	3,424	197	7,288	105.6	
	1850	3,819	3,551	208	7,578	107.5	
	1854	4,259	3,975	205	8,439	107.1	
	1856	5,691	5,344	104	11,139	106.4	{ More than Av. Births, less than Av. Males.
	1857	5,950	5,316	89	11,855	111.9	{ More than Av. Births, more than Av. Males.*
	1858	5,872	5,360	67	11,299	109.5	{ Less than Av. Births, less than Av. Males.*
	1859	5,570	5,266	123	11,259	111.4	{ Less than Av. Births, more than Av. Males.
	1860	6,192	5,568	118	11,878	111.2	{ More than Av. Births, more than Av. Males.*
	1861	6,167	5,678	89	11,934	108.6	{ More than Av. Births, less than Av. Males.
	1862	5,503	5,213	87	10,803	105.7	{ Less than Av. Births, less than Av. Males.*
	1863	5,162	4,654	69	9,885	110.9	{ Less than Av. Births, more than Av. Males.
	1864	5,029	4,628	77	9,734	108.6	{ Less than Av. Births, less than Av. Males.*
	1865				10,202		
	1866				11,623		
	1867	6,286	5,667	76	12,029	110.9	{ Less than Av. Births, more than Av. Males.
	1868	6,479	5,914	76	12,469	109.5	{ More than Av. Births, less than Av. Males.
	1869	6,505	5,886	90	12,481	110.5	{ Less than Av. Births, more than Av. Males.
	1870	6,876	6,181	79	13,186	111.2	{ More than Av. Births, more than Av. Males.*
	1871	6,904	6,122	88	13,114	112.7	{ (?).
1856 to 1871, Incl.	84,486	76,797	1,227	162,510	110.0	{ 14 cases, 6 exceptions, 1 doubtful.	
State of Michigan.	1863	10,088	9,284	172	19,544	108.6	
	1868	10,133	9,008	35	19,171	112.5	
	1869	14,071	12,958	64	27,093	108.5	{ More than Av. Births, less than Av. Males.
	1870	13,546	12,726	91	26,663	108.8	{ More than Av. Births, more than Av. Males.*
	1871	13,596	12,827	69	25,992	110.2	{ Less than Av. Births, more than Av. Males.
	1872	14,311	13,312	88	27,706	107.5	{ More than Av. Births, less than Av. Males.
	1869 to 1872, Inc.	55,824	51,923	307	107,454	108.7	4 cases, 1 exception.

* The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

^b Except 1865-6. ^c Year ending April 5th, 1868. ^d Nine months ending Dec. 31.

* Exceptions to rule that a more than average number of births is attended with a less than average proportion of males, and vice versa.

EXHIBIT R.—CONTINUED.

YEAR.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females	Remarks.*
All in Ex- hibit pre- ceding. ^b	786,767	685,889	8,568	1,427,719	107.8	{ 188 cases, 48 exceptions, 7 doubtful.
England.						
1849	-----	-----	-----	578,159	-----	-----
1850	-----	-----	-----	598,423	104.9	{ Less than Av. Birth, less than Av. Males.
1851	-----	-----	-----	615,865	104.7	{ More than Av. Birth, more than Av. Males.
1852	-----	-----	-----	624,012	104.6	{ More than Av. Birth, Av. Males.*
1853	-----	-----	-----	612,391	105.1	{ Less than Av. Birth, more than Av. Males.
1854	-----	-----	-----	634,405	104.4	{ More than Av. Birth, less than Av. Males.
Average	-----	-----	-----	-----	104.6	5 cases, 8 exceptions.

* The average of births is obtained by adding the births for the year preceding and succeeding to the births for the year in question and dividing by three; the average proportion of males used is the average for the whole series of years considered for the particular locality.

^b Including city of Providence, which is also included in statement for Rhode Island.

* Exceptions to rule that a more than average number of births is attended with less than average proportion of males, and vice versa.

EXHIBIT S.—Births in certain Cities and States during the years previous to 1861, for which statements are contained in Exhibit R.

CITIES AND STATES.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females
City of New York.....	51,674	47,478	114	99,266	106.8
Philadelphia.....	74,790	69,597	-----	144,387	107.4
City of Providence.....	5,805	5,492	-----	11,297	105.6
Vermont.....	18,188	12,554	148	25,885	105.0
Massachusetts.....	78,459	68,665	706	142,830	106.9
Rhode Island.....	12,781	12,141	103	25,025	105.2
Connecticut.....	29,575	26,854	496	56,925	110.1
Total.....	255,462	227,289	1,567	494,318	107.6

* Excluding city of Providence, which is included in statement for Rhode Island.

EXHIBIT T.—*Births in certain Cities and States during the Year 1861, showing that in a Majority of such Cities and States there was a less than Average Proportion of Male Children Born in that Year. The Birth-rate was increased.*

CITIES AND STATES.	Males.	Females.	Un-known Sex.	Total Births.	Males to 100 Femal's	Remarks.
N. Y. City.....	5,072	4,748	49	9,869	106.8	Births increased, Males decreased.
Philadelphia....	9,008	8,263	-----	17,271	109.0	Births increased, Males decreased.
Providence.....	996	789	-----	1,735	118.6	Births increased, Males increased.*
Vermont	2,354	2,170	48	6,567	105.8	Births increased, Males decreased.
Rhode Island...	2,531	2,291	18	4,840	110.4	Births increased, Males increased.*
Connecticut....	6,167	5,678	89	11,934	108.6	Births increased, Males decreased.
Total *.....	26,132	24,150	193	50,481	108.2	Births increased, Males increased.*

* Excluding City of Providence, which is included in statement for Rhode Island.

* Exceptions to rule that an increased birth-rate is attended with a decreased proportion of male children.

EXHIBIT U.—*Births in certain Cities and States during the Years 1862-5 inclusive, showing a greater than average proportion of Male Children born during those years. The birth-rate was decreased.*

CITIES AND STATES.	Males.	Females.	Un-known Sex.	Total of Births.	Males to 100 Femal's	Remarks.
N. Y. City.....	10,182	9,472	41	19,695	107.4	Births decreased, Males increased.
Philadelphia....	32,075	28,978	-----	61,053	110.6	Births decreased, Males increased.
Providence city	2,884	2,644	-----	5,478	107.1	Births decreased, Males increased.
Vermont.....	10,750	10,102	128	20,980	106.4	Births decreased, Males increased.
Massachusetts..	15,623	14,554	72	30,249	107.3	Births decreased, Males increased.
Rhode Island...	8,089	7,554	20	15,663	107.0	Births decreased, Males increased.
Connecticut....	15,694	14,495	233	30,422	108.2	Births decreased, Males decreased.*
Total *.....	92,413	85,155	494	178,062	108.5	Births decreased, Males increased.

* Excluding city of Providence, which is included in statement for Rhode Island.

* Exception to rule that a decreased birth-rate is attended with an increased proportion of male children.

EXHIBIT V.—*Births in certain Cities and States during the Years since 1865, for which statements are contained in Exhibit R.*

CITIES AND STATES.	Males.	Females.	Un- known Sex.	Total Births.	Males to 100 Females.
New York City.....	54,817	51,745	156	106,718	105.9
Philadelphia.....	65,284	58,991	-----	124,275	110.6
Providence City.....	6,570	6,426	-----	12,996	102.2
Vermont.....	18,289	17,106	167	35,562	106.9
Massachusetts.....	92,233	87,251	256	179,740	105.7
Rhode Island.....	19,273	18,401	8	37,682	104.6
Connecticut.....	38,050	29,770	409	68,229	111.0
Total ^a	282,946	263,264	996	547,206	107.4

^a Excluding city of Providence, which is included in statement for Rhode Island.

EXHIBIT W.—*Births in certain Cities and States for all the Years specified for those Cities and States in Exhibit R.*

CITIES AND STATES.	Males.	Females.	Un- known. Sex.	Total Births.	Males to 100 Females.
New York City.....	121,745	113,443	360	235,548	107.3
Philadelphia.....	116,212	105,089	-----	221,301	110.5
Providence city.....	16,145	15,351	-----	31,496	105.2
Vermont.....	45,576	42,932	486	88,994	106.1
Massachusetts.....	107,856	101,805	328	209,989	105.9
Rhode Island.....	42,674	40,387	149	83,210	105.6
Connecticut.....	84,486	76,797	1,227	162,510	110.0
Total ^a	518,549	480,458	2,550	1,001,552	107.9

^a Excluding city of Providence, which is included in statement for Rhode Island.

MARRIAGES.

The whole number of marriages returned as having been solemnized during the year 1871 was 10,181. This indicates a greater number of marriages than during the year 1870, but possibly a less number than during the year 1869, although it will be seen, by comparing Table I. with Exhibit A, that it is probable that some marriages solemnized in 1871 may be returned hereafter.

As an aid to a clear idea of the frequency of the ceremony, the average number of marriages during specified periods of time is stated as follows:

Average number per quarter.....	2,545.25
Average number per month.....	848.41
Average number per week.....	195.78
Average number per day.....	27.89

The actual number and per cent. of marriages during each quarter of the year is shown in Table I., which also includes similar statements for the preceding years. This table is made from all returns received up to May 1, 1873, as stated in the heading. Exhibit A shows the marriages as first returned, and in connection with Table 2 indicates the manner in which the statements for 1871 will probably be modified by future supplementary returns.

TABLE I.—*Marriages by Quarters of the Year, showing Number and Per Cent. of Total, for the Years 1868, 1869, 1870, and 1871, Corrected up to May 1, 1873.*

TOTALS AND MONTHS WITH WHICH QUAR- TERS END.	1868.		1869.		1870.		1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals.....	8,635	100.00	10,284	100.00	9,643	100.00	10,181	100.00
March.....	1,527	17.68	2,293	22.29	2,434	25.75	2,475	24.30
June.....	1,813	20.99	2,256	21.93	2,134	22.13	2,250	22.09
September.....	2,154	24.94	2,442	23.74	2,157	22.36	2,423	23.79
December.....	3,133	36.28	3,275	31.84	2,851	29.56	3,018	29.64
Unknown.....	8	.09	18	.17	17	.17	15	.14
Average *.....	2,159	25.00	2,571	25.00	2,411	25.00	2,545	24.99

* The number in unknown quarter of year included.

EXHIBIT A.—*Marriages by Quarters of the Year, showing Number and Per Cent. of Total, for the Years 1868, 1869, 1870, and 1871, as originally returned and published in Reports.*

TOTALS, AND MONTHS WITH WHICH QUAR- TERS END.	1868.		1869.		1870.		1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals.....	6,866	100.00	8,459	100.00	9,160	100.00	10,181	100.00
March.....	1,377	20.05	2,167	25.61	2,429	26.51	2,475	24.30
June.....	1,667	24.13	2,097	24.79	2,081	22.71	2,250	22.09
September.....	1,836	27.46	2,154	25.46	2,073	22.63	2,423	23.79
December.....	1,924	28.16	2,024	23.92	2,560	27.94	3,018	29.64
Unknown.....	12	.17	17	.20	17	.18	15	.14
Average *.....	1,716	25.00	2,114	25.00	2,290	25.00	2,545	24.99

* Includes those in unknown quarter of year.

TABLE II.—*Marriages by Months, arranged in Order by Number, for the Years 1868, 1869, 1870, and 1871, Corrected up to May 1st, 1873.*

ORDER	1868.			1869.			1870.			1871.		
	Months.	Number.	Per Cent. of Total.	Months.	Number.	Per Cent. of Total.	Months.	Number.	Per Cent. of Total.	Months.	Number.	Per Cent. of Total.
	Total	8,685	100.00	Total	10,234	100.00	Total	9,648	100.00	Total	10,181	100.00
1.....	December...	1,138	13.17	December...	1,179	11.46	December...	993	10.29	December...	1,087	10.67
2.....	November..	1,028	11.90	November..	1,062	10.32	November..	953	9.89	October.....	977	9.59
3.....	October.....	967	11.19	October.....	1,094	10.04	October.....	905	9.38	November..	954	9.37
4.....	September..	841	9.73	September..	892	8.67	January.....	843	8.74	January.....	901	8.84
5.....	July	718	8.21	January.....	860	8.36	March.....	880	8.60	July	879	8.69
6.....	January.....	681	7.83	July	831	8.08	February...	811	8.41	April.....	870	8.54
7.....	May	603	7.67	May	816	7.93	July	801	8.30	September..	893	8.19
8.....	April.....	614	7.11	April.....	763	7.41	May	778	8.06	March.....	808	7.89
9.....	August.....	593	6.89	March.....	750	7.29	April.....	792	7.79	February...	771	7.57
10.....	June.....	536	6.20	August.....	719	6.99	September..	743	7.70	May	749	7.35
11.....	February...	461	5.33	February...	833	6.64	August.....	613	6.35	August.....	711	6.93
12.....	March	385	4.45	June.....	677	6.58	June.....	604	6.26	June.....	691	6.19
	Unk. M'ths..	8	.09	Unk. M'ths..	18	.17	Unk. M'ths..	17	.17	Unk. M'ths..	15	.14
	Average*....	719.58	8.33	Average*....	857.90	8.33	Average*....	899.52	8.33	Average*....	649.41	6.38

* Includes those for unknown months.

FIFTH REGISTRATION REPORT.

EXHIBIT B.—Marriages in Michigan during the Years 1868, 1869, 1870, and 1871, corrected up to May 1, 1873, and Equalized to Uniform Months of 30.44 days each.

	Y'rs.	MONTHS.												Un- known	
		Totals.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.		Dec.
Marriages as returned..... Days and hundredths by which the months should be increased or diminished to equal- ize them to uniform length..... Number by which the marriages should be in- 1868 { creased or diminished to equalize them to months of uniform length.....		8,685	681	461	885	614	663	580	718	595	841	967	1,093	1,188	8
		-----	-56	+1.14	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56	-----
		-26	-12	+23	-7	+9	-12	+8	-18	-11	+12	-17	+15	-21	-----
Marriages equalized to months of uniform length..... Marriages as returned..... Days and hundredths by which the months should be increased or diminished to equal- ize them to uniform length..... Number by which the marriages should be in- 1869 { creased or diminished to equalize them to months of uniform length.....		8,609	669	484	878	623	651	544	705	554	838	950	1,043	1,117	8
		-----	-56	+2.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56	-----
		-3	-16	+60	-14	+11	-15	+10	-15	-18	+18	-19	+16	-21	-----
Marriages equalized to months of uniform length.....		10,281	844	748	736	774	801	687	816	706	905	1,015	1,078	1,186	18

MARRIAGES—BY MONTHS.

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Marrriages as returned.....	9,648	818	811	890	752	772	604	601	743	905	903	17
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	-56	+2,44	-56	+44	-56	+44	-56	+44	-56	+44
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	+13	-15	771	-15	+11	-14	+9	-14	+11	-16	+14	.....
Marrriages equalized to months of uniform length.....	9,656	828	892	815	763	764	618	787	754	849	947	17
Marrriages as returned.....	10,181	901	771	898	870	749	681	879	888	977	954	15
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	-56	+2,44	-56	+44	-56	+44	-56	+44	-56	+44	.....
Number by which the marriages should be increased or diminished to equalize them to months of uniform length.....	+3	-16	+67	-15	+18	-14	+9	-16	+12	-18	+14	.....
Marrriages equalized to months of uniform length.....	10,184	885	898	783	888	785	640	868	845	959	946	15

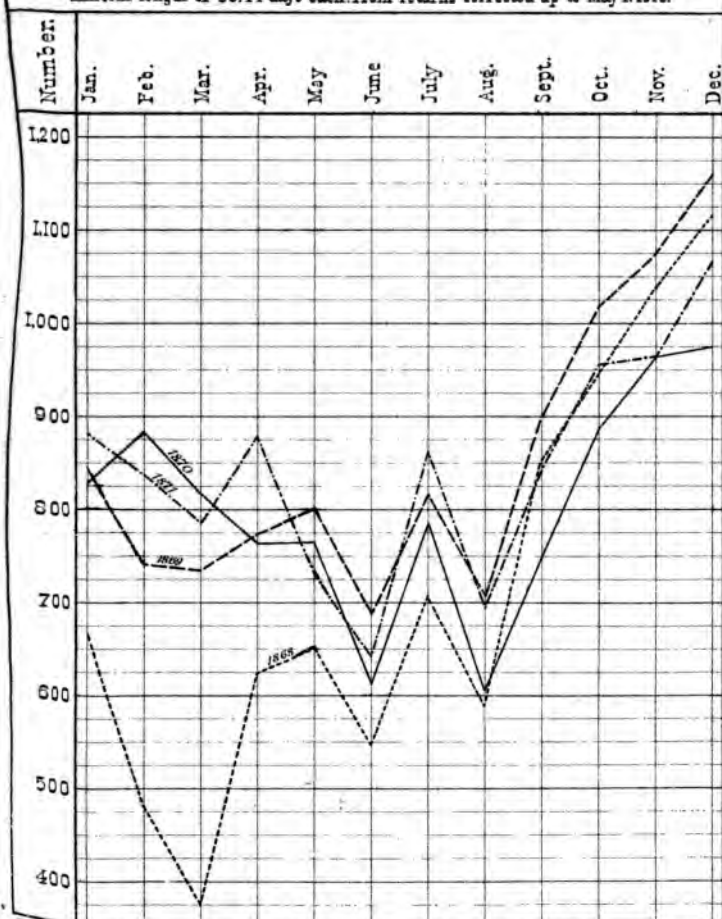
Table II. differs from the similar table in the last Report 1 containing a greater number of marriages in each year include the additional number having been returned since the several columns in that table were compiled. Exhibit B shows the modification made to the statements of marriages as returned in order to render it possible and convenient to compare the marriages by months.

The diagram, relating to marriages equalized to months of uniform length, shows more plainly than the tables the relation between the years, and also between the different months of each year. It also shows the tendency to marriage in each month, which cannot so well be seen from a table or diagram exhibiting the marriages as returned.

By comparing this Report with the preceding one, it will be seen that there is not so great a falling off in the marriages returned for the last few months in the year 1871, but it is not probable that all have yet been returned. It seems, however, that the system of record and return is constantly becoming more fully understood, and the law better complied with.

DIAGRAM N^o 2.

Marriages in Michigan during the years 1868. 1869. 1870 and 1871 by months equalized to uniform length of 30.44 days each. From returns corrected up to May 1. 1873.



The Calvert Lith. Co. Detroit.

Designed by H. B. Baker, M.D.



TABLE III.—*Distinguishing, by Counties and by Months, the Number of Marriages Returned as having been Solemnized during the year ending December 31, 1871.*

STATE AND COUNTIES.	Year 1871.	MONTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State.....	10,181	901	771	808	870	749	681	879	711	888	977	954	1087	15
Alcona.....	3						1	1			1			
Allegan.....	215	18	16	27	15	20	12	14	14	17	22	12	28	
Alpena.....	26		1	2	2	4	1	5		5	3	2	1	
Antrim.....	18		3	2		7	3				1	3	1	
Barry.....	156	16	11	13	17	15	5	22	7	5	8	14	23	
Bay.....	118	10	8	4	7	13	6	15	16	5	12	12	9	1
Benzie.....	17	3	2	1	2			1		2	1	2	3	
Berrien.....	377	37	23	44	33	25	15	30	26	29	35	36	44	
Branch.....	263	34	16	27	23	16	19	12	16	18	28	24	30	
Calhoun.....	270	27	19	21	24	15	14	11	17	23	25	34	40	
Cass.....	199	10	20	13	21	16	20	14	12	15	18	22	17	1
Charlevoix.....	18	2			2	2	2	1	3	3	2	1		
Cheboygan.....	21		2	1	4	3	1	2	1	1	1		5	
Chippewa.....	11		1		1	2	2			2	1	2		
Clare.....	13			1	1	2	1	1	3	2	1	1		
Clinton.....	168	17	17	15	17	15	5	14	11	12	17	18	10	
Delta.....	15						1	2	3		3	2	4	
Eaton.....	225	29	24	14	18	11	9	15	21	21	19	22	22	
Emmet.....	14	2	4		1	2	1		1	1	1		1	
Genesee.....	254	21	22	28	21	21	20	21	19	9	25	22	25	
Grand Traverse.....	33	3	1	1	5	4		4	2	2	4	5	2	
Gratiot.....	110	11	3	10	10	7	7	15	10	8	9	8	12	
Hilledale.....	322	44	30	25	22	20	19	21	21	20	37	22	41	
Houghton.....	90	4	11	4	3	7	8	8	12	13	10	4	5	1
Huron.....	63	7	4	4	2	5	4	6	4	9	4	7	7	
Ingham.....	235	17	23	23	24	13	13	23	14	22	18	18	27	

*The clergymen of two large Catholic societies in this county (one in Flint and one in Fenton) made no returns of marriages for the year 1871.

TABLE III.—CONTINUED.

COUNTIES.	Year 1871.	MONTHS.												Unknown.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Ionla	249	21	16	19	23	14	8	33	12	27	22	26	28	...
Iosco	44	1	2	3	2	3	2	7	5	3	6	6	4	...
Isabella	38	2	6	3	...	4	...	7	1	4	3	2	6	...
Jackson	307	35	29	19	25	20	17	20	25	23	26	28	39	1
Kalamazoo	300	20	17	27	21	21	19	20	20	27	27	34	46	1
Kalkaska	3	...	...	...	1	...	...	1	...	1	...	...	...	...
Kent	489	46	34	38	43	26	28	52	29	36	54	44	59	...
Keweenaw ^b .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lake ^c .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lapeer	155	12	14	14	18	15	6	10	13	13	11	14	15	...
Leelanaw	43	1	2	3	5	3	1	8	6	3	5	2	4	...
Lenawee	419	34	38	49	27	28	19	36	38	36	33	36	45	...
Livingston	132	7	7	14	11	7	10	16	12	15	14	15	11	...
Mackinac ^b .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macomb	228	21	19	14	20	20	17	14	14	20	16	32	21	...
Manistee	85	6	5	7	7	10	8	8	5	4	10	6	9	...
Manitou	4	...	...	1	...	...	1	1	...	1	...	...	...	...
Marquette	145	23	9	9	7	15	15	9	10	9	16	15	8	...
Mason	36	1	...	3	3	6	2	5	4	...	5	4	3	...
Mecosta	62	4	5	2	4	8	2	6	3	4	4	12	8	...
Menominee	8	1	...	...	1	...	2	...	2	...	2	...	...	...
Midland	25	1	1	3	4	1	1	1	1	2	2	2	4	2
Missaukee	1	...	...	1	...	...	...	...	...	...	...	...	...	...
Monroe	204	23	20	13	16	16	8	13	20	16	24	17	20	...
Montcalm	125	6	15	9	14	8	4	13	8	13	11	11	13	...
Muskegon	129	12	10	7	7	10	11	18	11	10	10	7	16	...
Newaygo	66	9	3	5	6	1	7	3	2	6	11	5	8	...
Oakland	331	26	26	25	41	26	17	25	19	24	24	32	54	1
Oceana	60	4	5	7	5	2	3	7	5	2	6	6	7	1

^b No returns of marriages to this Department.^c No marriages returned to County Clerk.

TABLE III.—CONTINUED.

COUNTIES.	Year 1871.	MONTHS.												
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ontonagon.....	6	---	---	---	---	1	---	---	2	1	1	1	---	---
Osceola.....	31	1	1	1	5	3	4	1	4	1	4	2	4	---
Ottawa.....	202	10	18	14	17	16	20	25	6	19	24	18	15	---
Presque Isle ^b	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saginaw.....	382	41	24	28	34	30	24	40	24	25	36	34	42	---
Sanilac.....	96	4	6	9	14	2	6	9	12	8	14	5	7	---
Schoolcraft ^b	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Shiawassee.....	146	15	10	11	17	9	10	11	9	13	13	12	16	---
St. Clair.....	304	20	21	29	16	24	23	30	17	24	37	37	26	---
St. Joseph.....	309	28	21	26	27	22	15	30	20	30	66	39	31	---
Tuscola.....	111	8	11	9	4	8	7	11	8	10	11	10	14	---
Van Buren.....	221	22	16	15	15	15	13	20	13	25	18	30	19	---
Washtenaw.....	300	29	17	21	24	25	19	23	19	27	34	21	41	---
Wayne.....	1,111	98	81	64	111	91	93	87	79	107	111	101	87	6
Wexford.....	8	2	1	1	---	---	2	1	---	---	---	1	---	---

^b No returns of marriages to this Department.

In the Report for 1870 there were 635 marriages reported where the color was not stated. In one or two counties it was manifestly the fault of the County Clerk, but in most cases it was the result of lack of performance of duty by those solemnizing marriages. It is gratifying to notice that in the marriages for 1871 the number returned without a statement of the color of parties married is reduced to 166.

In the blanks printed and distributed by the State Department for the use of persons who solemnize marriages, there has lately been an important improvement as regards the method of returning the color of persons married, which it is now provided shall be stated as white, black, mulatto, Indian,

white and Indian, etc. More perfect statements are therefore expected hereafter.

TABLE IV.—*Showing, by Color and by Sex, the Population June 1, 1870, the Number of Marriages, the Number and Per Cent. of Total Number of Persons Married in Michigan during the year 1871, and the Per Cent. of Persons Married in 1871 to Population June 1, 1870.*

COLORS.	SEX.	Population June 1, 1870, Represented by Marriages in 1871.	Number of Marriages.	PERSONS MARRIED.		Per Cent. of Persons Married in 1871 to Pop. June 1, 1870.	No. of Persons who Married those of Another Color.
				Number.	Per Cent. of Total No.		
All Colors.....	Total	1,176,659	10,181	20,862	100.00	1.730	30
	Males.....	613,966	-----	10,181	50.00	1.658	15
	Females..	562,693	-----	10,181	50.00	1.809	15
White.....	Total....	1,160,435	9,854	19,776	97.12	1.704	11
	Males.....	605,528	-----	9,916	48.70	1.637	9
	Females..	554,907	-----	9,860	48.42	1.776	2
Black	Total....	5,521	108	205	1.00	3.713	6
	Males.....	3,047	-----	105	.51	3.446	6
	Females..	2,474	-----	100	.49	4.042	-----
Mulatto.....	Total	6,199	10	20	.09	.322	4
	Males.....	3,129	-----	9	.04	.287	-----
	Females..	3,070	-----	11	.05	.359	4
Indian	Total....	4,504	48	89	.43	1.976	9
	Males.....	2,262	-----	40	.19	1.768	-----
	Females..	2,242	-----	49	.24	2.185	9
Unknown Colors.	Total....	-----	166	272	1.33	-----	-----
	Males.....	-----	-----	111	.54	-----	-----
	Females..	-----	-----	161	.79	-----	-----
Black and Mu- latto	Total....	11,720	113	225	1.10	1.919	10
	Males.....	6,176	-----	114	.55	1.845	6
	Females..	5,544	-----	111	.54	2.002	4

TABLE V.—Showing, for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1871, the Number of White Persons, and, by Color, the Number of Marriages where one or both Parties were other than White.

STATE AND COUNTIES	Marriages, 1871.	COLOR.				
		White.	Black.	Mulatto.	Indian.	Unknown.
State.....	10,181	9,554	*103	†10	‡48	§168
Alcona.....	3	3				
Allegan.....	215	209	a 4		2	
Alpena.....	26	26				
Antrim.....	18	18				
Barry.....	156	156				
Bay.....	118	115	b 1		2	
Benzie.....	17	15				2
Berrien.....	377	356	c 4			d 17
Branch.....	263	261				e 2
Calhoun.....	270	260	f 5		§ 8	h 3
Cass.....	199	181	i 8	6		j 4
Charlevoix.....	18	14			3	k 1
Cheboygan.....	21	8	l 1			m 12
Chippewa.....	11	8			n 2	o 1
Clare.....	13	13				
Clinton.....	163	167	p 1			
Delta.....	15	15				
Eaton.....	225	225				
Emmet.....	14	2			q 12	

* Includes 11 couples "Colored," 71 couples "African," 1 couple "Dark," 1 female "Mulatto," 3 males "African," 2 females "African and White," and 2 females "White."

† Includes 1 male "African."

‡ Includes 3 couples "Red," 2 couples "White and Indian," 4 females "White and Indian," 2 males "Indian and White," 9 males "White," 1 female "Indian," 1 female "Mixed," and 1 female "African, Indian, and White."

§ Includes 53 males "White," 1 "Indian," 1 female "Indian," 1 male "African," 1 couple "Light," and 4 females "White."

a 4 couples "Colored," b 1 couple "African," c 1 female "Mulatto," d 1 male "White," e 1 male "White," f 4 couples "African" and 1 couple "Dark," g 3 couples "Red," h 2 males "White," i 4 couples "African," 3 males "African," 1 female "White," 2 females "African and White," j 2 males "White," k 1 male "White," l 1 couple "African," m 12 males "White," n 1 female "White and Indian," 1 couple "White and Indian," 1 male "White," o 1 "Indian," p 1 couple "Colored," q 2 males "White," 1 female "Indian," 1 female "Mixed," 2 males "Indian and White," 1 female "Indian and White," 1 female "African, Indian, and White."

TABLE V.—CONTINUED.

COUNTIES.	Marriages, 1871.	COLOR.				
		White.	Black.	Mulatto.	Indian.	Unknown.
Genesee.....	254	249	1			a 4
Grand Traverse.....	33	33				
Gratiot.....	110	110				
Hillsdale.....	322	316	b 1			3
Houghton.....	90	89				c 1
Huron.....	63	63				
Ingham.....	235	234	b 1			
Ionia.....	249	248	1			
Iosco.....	44	43				1
Isabella.....	88	82			6	
Jackson.....	307	281	d 5			21
Kalamazoo.....	300	291	e 8			f 1
Kalkaska.....	3	3				
Kent.....	489	486	1			g 2
Keweenaw..... ^h						
Lake..... ⁱ						
Lapeer.....	155	155				
Leelanaw.....	43	37	j 1		k 5	
Lenawee.....	419	388	1	1		134
Livingston.....	139	136				m 3
Mackinac..... ^h						
Macomb.....	228	226	n 1			o 1
Manistee.....	85	76				p 9
Manitou.....	4	4				
Marquette.....	145	143	q 2			
Mason.....	86	83			r 2	s 1
Mecosta.....	62	61				1
Menominee.....	8	6			t 2	

a 3 males "White." b 1 couple "Colored." c 1 female "Indian." d 5 couples "African." e 1 couple "Colored," 4 couples "African." f 1 Male "White." g 1 male "African," 1 male "White." h No returns of marriages to this Department. i No marriages returned to County Clerk. j 1 female "White." k 1 couple "White and Indian." l 1 couple "Light," 8 males "White." m 8 males "White." n 1 couple "African." o 1 male "White." p 5 males "White." q 2 couples "African." r 1 male "White." s 1 female "White." t 2 males "White," 2 females "White and Indian."

TABLE V.—CONTINUED.

COUNTIES.	Marriages, 1871.	COLOR.				
		White.	Black.	Mulatto.	Indian.	Unknown.
Midland.....	25	25				
Missaukee.....	1	1				
Monroe.....	206	205	* 1			
Montcalm.....	125	125				
Muskegon.....	129	116				* 13
Newaygo.....	66	66				
Oakland.....	334	317	* 6			* 11
Oceana.....	60	51	* 1		* 3	* 5
Ontonagon.....	6	6				
Oscoda.....	31	31				
Ottawa.....	202	201	* 1			
Presque Isle.....	h					
Saginaw.....	332	363	* 2		1	* 11
Sanilac.....	96	93				* 1
Schoolcraft.....	h					
Shiawassee.....	146	145	1			
St. Clair.....	304	300			1	* 3
St. Joseph.....	309	307	* 2			
Tuscola.....	111	111				
Van Buren.....	221	214	* 3	2	* 2	
Washtenaw.....	300	298	* 6	* 1		
Wayne.....	1,111	1,078	* 33			
Wexford.....	8	7				* 1

* 1 couple "African." b 1 female "White." c 6 couples "African." d 1 male "White." * 1 couple "African." f 2 males "White." * 1 couple "African." No returns of marriages to this Department. i 1 couple "African." j 1 couple "Colored." k 7 males "White," 2 females "White." l 1 male "White." m 1 male "White." n 2 couples "Colored." o 8 couples "African." p 1 male "White." q 8 couples "African." r 1 male "African." s 33 couples "African." t 1 male "White."

MARRIAGES—BY NATIVITY.

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EXHIBIT C.—*Relation of Marriages in 1871 of Persons of all Nationalities, and of those where both parties were either Native or Foreign-born, to the Total, to the Native, and to the Foreign-born Inhabitants, June 1, 1870, aged 15 to 45 years.*

NATIVITY.	INHABITANTS JUNE 1ST, 1870, AGED 15 TO 45 YEARS.			NUMBER MARRIED.			PER CENT. OF PERSONS MARRIED IN 1871 TO INHABITANTS JUNE 1, 1870, AGED 15 TO 45 YEARS.		
	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.	Males.	Females.
All Nationalities ^a	555,352	289,085	266,267	20,862	10,181	10,181	8.66	8.52	8.82
Native.....	387,806	195,765	191,541	13,575	6,645	7,233	8.58	8.39	8.77
Foreign.....	168,046	93,320	74,726	5,770	3,179	2,591	8.43	8.40	8.46

^a In the number married, this line includes marriages of foreign males and native females, foreign females and native males, and of persons whose nativity was unknown.

Table VI. presents a useful view of the comparative number and per cent. of marriages of native and foreign-born inhabitants. As regards the relation of persons married to inhabitants, however, the table is necessarily very unsatisfactory, for the reason that the population is not a "fixed" one, and the total population furnishes no proper standard to which may be compared either the native or foreign-born population, each class of inhabitants including, as it does, a different proportion of persons at marriageable ages. Another view of this subject is given in Exhibit C, wherein only inhabitants aged 15 to 45 years are included in the computation. This, however, is only given as a slight beginning of the study, which it will at once be seen is a very complex one. By examining the fourth, sixth, ninth, and tenth columns of Table VII. it becomes evident that it will not answer to measure the marriage-rate of one sex at any given age, by that of the other sex at the same age, and that in order to compare the marriage-rate of native and foreign-born inhabitants it will be necessary to compute, for each nativity, the per cent. of marriages of persons of each sex at each age to the inhabitants of corresponding nativity at the same ages.

TABLE VII.—*Showing, for all Persons Married in Michigan during the Year 1871, by Total and by Sex, the Age in Years and Periods of Years; the Per Cent. of those at each Age to Total of all Ages; by Sex, the Population June 1, 1870, Represented by Returns of Marriages in 1871; and, by Sex, the Per Cent. of Persons Married to Population of same Age and Period of Age.*

AGES, IN YEARS AND PERIODS OF YEARS.	MARRIAGES.					Population at each Age and Period, June 1, 1870, Repre- sented by Mar- riages in 1871. ^b		Per Cent. of Marriages to Popu- lation of Cor- responding Age.	
	Total No. of Persons Married.	MALES.		FEMALES.					
		Number Mar- ried.	Per Cent. of Total No. of Marriages.	Number Mar- ried.	Per Cent. of Total No. of Marriages.	Males.	Females.	Males.	Females.
All ages.....	20,862	10,181	100.00	10,181	100.00	886,471	888,122	2.63	2.65
12.....	1	-----	-----	1	-----	-----	14,662	-----	-----
13.....	3	-----	-----	3	.02	-----	13,180	-----	.02
14.....	27	-----	-----	27	.26	-----	12,865	-----	.20
15.....	120	1	-----	119	1.16	11,791	11,657	-----	1.02
16.....	538	2	.01	536	5.26	12,566	12,447	.01	4.30
17.....	793	6	.05	787	7.73	11,699	11,258	.05	6.99
18.....	1,176	68	.66	1,108	10.88	12,407	12,667	.54	8.74
19.....	1,249	216	2.12	1,033	10.14	11,442	10,669	1.88	9.68
20.....	1,518	464	4.55	1,054	10.35	12,275	12,348	3.78	8.53
21 to 25.....	6,384	3,649	35.84	2,735	26.86	47,255	42,619	7.72	6.41
25 to 30.....	4,417	3,059	30.04	1,358	13.33	52,444	48,179	5.83	2.81
30 to 35.....	1,549	1,064	10.45	485	4.76	42,862	39,736	2.48	1.22
35 to 40.....	871	569	5.53	302	2.96	39,681	34,854	1.43	.86
40 to 45.....	546	326	3.20	220	2.16	32,513	28,151	1.00	.78
45 to 50.....	350	228	2.23	122	1.19	28,007	22,083	.81	.55
50 to 55.....	240	165	1.62	75	.73	23,945	18,082	.68	.41
55 to 60.....	135	112	1.10	23	.42	16,369	12,530	.68	.34
60 to 65.....	128	97	.95	31	.30	12,997	10,564	.74	.29
65 to 70.....	61	45	.44	16	.15	8,285	6,552	.54	.24
70 to 75.....	27	25	.24	2	.01	5,407	4,202	.46	.04
75 to 80.....	10	9	.08	1	-----	2,572	2,139	.34	.04
80 and over.....	2	1	-----	1	-----	1,713	1,526	.05	.06
Unknown ages.....	197	75	.73	122	1.19	211	151	35.54	30.79
Under 15.....	31	-----	-----	31	.30	228,805	221,553	-----	.01
15 to 20.....	3,876	293	2.87	3,583	35.19	60,042	58,853	.48	6.08
20 to 25.....	7,902	4,113	40.39	3,789	37.21	59,806	55,145	6.87	6.87

^a At which marriages occurred.

^b Population at ages at which marriages occurred.

TABLE VIII.—CONTINUED.

COUNTIES.	No. of Couples.	NATIVITY.					MARRIAGES AT DIFFERENT AGES STATED IN PERIODS OF YEARS.																
		Native.	Foreign.	Born Native males.	Foreign males.	Native Females.	Unknown.	Sex Stated.	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
Gratiot.....	110	85	5	9	1	10	Males.... Females..	5 50	48 31	28 12	9 2	4 3	5 8	2 8	1 6	2 3	1 1	1 1	1 1	1 1	1 1	1 1	8 8
Hillsdale.....	322	280	6	17	9	10	Males.... Females..	9 101	143 71	29 16	12 10	14 8	10 7	7 8	6 6	4 1	5 1	1 1	1 1	1 1	1 1	1 1	7 9
Houghton.....	90	1	75	5	1	8	Males.... Females..	4 39	30 20	27 16	15 4	8 1	2 1	2 1	2 1	2 1	1 1	1 1	1 1	1 1	1 1	6 6	
Huron.....	68	5	31	16	11	11	Males.... Females..	8 35	26 21	16 1	6 1	8 3	2 4	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	
Ingham.....	235	182	7	16	14	16	Males.... Females..	11 69	89 98	75 40	17 13	17 5	2 4	8 8	5 1	3 1	1 1	1 1	1 1	1 1	1 1	1 1	4 5
Ionia.....	249	191	12	20	15	11	Males.... Females..	9 100	118 92	66 26	24 12	14 6	6 2	2 2	4 1	8 2	3 1	3 1	3 1	3 1	3 1	3 1	4 5
Iosco.....	44	10	23	6	1	2	Males.... Females..	1 19	25 14	10 8	2 1	3 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	
Isabella.....	88	29	.....	6	2	1	Males.... Females..	8 20	15 8	8 3	..... 1	2 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	6 6	
Jackson.....	307	238	17	29	18	15	Males.... Females..	12 97	128 112	68 50	28 9	19 15	8 7	6 3	5 1	3 1	1 1	1 1	1 1	1 1	1 1	1 1	8 9

MARRIAGES—BY COUNTIES, NATIVITY, SEX, AND AGE. 133

[illegible]

No returns of marriages to this Department.

No marriages returned to County Clerk.

TABLE VIII.—CONTINUED.

[illegible]

TABLE IX.—Exhibiting, for the State and Counties, the Total Number, and Number of each Sex, under 21 Years of Age; also, the Number of each Sex at each Age under that of Twenty-one Years, returned as having been Married in Michigan during the Year ending December 31, 1871.

STATE AND COUNTIES.	AGES OF MALES.				AGES OF FEMALES.													
	Total No. Mar-ried under 21 Years of Age.	Males Married under 21 Years of Age.	Females Married under 21 Years of Age.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.	Twelve.						
State.....	5,425	737	4,688	464	216	65	9	2	1	1,054	1,033	1,108	787	536	119	27	3	1
Alcona.....	3	.....	3	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....
Allegan.....	134	17	117	12	4	1	.....	.....	.....	35	17	32	18	12	2	1	.....	.....
Alpena.....	13	1	12	1	.....	.....	.....	.....	.....	2	4	3	2	1	.....	.....	.....	.....
Antrim.....	10	.....	10	.....	.....	.....	.....	.....	.....	.....	1	2	3	2	2	.....	.....	.....
Barry.....	96	14	82	8	5	1	.....	.....	.....	13	25	17	16	10	1	.....	.....	.....
Bay.....	56	4	52	3	1	.....	.....	.....	.....	12	8	13	12	5	2	.....	.....	.....
Benzie.....	11	1	10	1	.....	.....	.....	.....	.....	1	.....	2	2	4	1	.....	.....	.....
Berrien.....	214	31	183	19	9	3	.....	.....	.....	45	41	41	31	20	4	.....	1	.....
Branch.....	160	24	136	14	8	2	.....	.....	.....	32	35	32	23	11	2	1	.....	.....
Calhoun.....	125	15	110	12	2	1	.....	.....	.....	24	25	27	21	9	2	1	1	.....
Cass.....	105	14	91	9	5	.....	.....	.....	.....	20	26	23	10	3	3	1	.....	.....
Charlevoix.....	14	3	11	3	1	2	5	3
Cheboygan.....	15	15	2	2	4	3	4

MARRIAGES—BY AGES UNDER TWENTY-ONE.

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	106	16	90	18	5	1	23	10	20	11	14	2	...
Monroe.....	75	10	65	8	...	2	18	18	16	11	10	2	1
Montcalm.....	66	7	59	8	3	1	11	11	19	9	7	2	...
Muskegon.....	51	5	46	2	1	1	8	5	11	4	13	4	2
Newaygo.....	157	23	134	13	8	2	30	37	33	22	11	1	...
Oakland.....	31	4	27	1	1	2	...	8	6	5	9	8	1
Oceana.....	3	...	3	...	...	...	...	1	...	2	...	...	...
Ontonagon.....	23	6	17	2	4	...	8	2	5	4	1	2	...
Oscoda.....	112	9	103	5	4	...	19	23	26	20	10	5	...
Ottawa.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Presque Isle.....	187	20	167	13	6	1	49	24	31	34	24	5	...
Saginaw.....	65	7	58	5	1	1	12	15	11	6	12	1	1
Sanilac.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Schoolcraft.....	98	15	88	10	2	2	18	12	32	14	5	2	...
Shiawassee.....	159	19	140	6	7	5	26	31	46	18	17	1	1
St. Clair.....	133	19	134	9	7	3	39	23	31	28	12	1	...
St. Joseph.....	75	12	63	8	4	...	13	13	12	10	13	2	1
Tuscola.....	136	25	111	13	5	2	24	23	18	24	17	6	...
Van Buren.....	137	24	118	13	5	1	43	26	22	20	2	...	...
Washtenaw.....	447	46	401	29	10	5	100	111	97	53	84	6	...
Wayne.....	7	...	7	...	...	...	1	1	...	2	2	1	...
Wexford.....	...	...	...	...	...	...	...	...	...	...	...	...	...

* Not legal marriages. For law and penalty to persons solemnizing, see Sections (4719), (4720), (4723), and (4729). Compiled Laws of 1871, pages 1467, 1468, printed also in back part of this Report. * No marriages returned to County Clerk. ° No returns of marriages to this Department.

In the last Report, by quoting the law on the subject, attention was called to the fact that marriages had been reported which were not in accordance with the law for the reason that the persons married were not of proper age. During the year 1870, only 119 such illegal marriages were reported, but for 1871 it appears by Table IX. that there were 159 such marriages returned. The legal penalty for such action appears to be such that the persons pretending to solemnize marriage under such circumstances "shall forfeit for every such offense a sum not exceeding five hundred dollars." The offender may also be imprisoned in the county jail not more than one year. If the penalty were enforced a few times, it might have the effect of preventing a large number of such illegal marriages, and much litigation in the future concerning inherited rights to property, as well as much shame to children because of illegitimacy. If it were not that the evidence of it is contained in the certificates of the persons who solemnize these marriages, it would seem almost impossible that justices of the peace and ministers of the gospel should disregard the law in so important a matter as solemnizing marriages.

A consideration of the facts suggests the propriety of withdrawing the power to do so much mischief from the hands of a large class of these ill-informed and irresponsible persons, and of placing marriage contracts under the charge of some responsible and prominent civil officer, permitting religious ceremony if desired, but providing legal steps which should be required in every case, and which should at least be as strict as those for the conveyance of property or estate in any other manner. Perhaps it might do much to remedy this evil if a law were passed requiring parties contracting marriage to record the contract in the same manner as deeds and other conveyances of real estate are now recorded, such contract and record to state the date when the contract is to take effect, which date should not precede the date of record.

TABLE X.—*Exhibiting the Number of each Sex, at each Period of Age, who were Married in Michigan during the year 1871; and the Number of each Sex, at each Period of Age, who were United to the Opposite Sex, at each Period of Age.*

AGES OF MALES.	AGES OF FEMALES.															Total Males.
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Over 80.	Unknown.	
Under 20.....	228	59	4	1	1	---	---	---	---	---	---	---	---	---	---	298
20 to 25.....	2,148	1,693	225	27	9	1	---	---	---	---	---	---	---	---	15	4,113
25 to 30.....	943	1,427	544	74	30	13	3	1	---	---	---	---	---	---	24	3,059
30 to 35.....	206	391	268	138	32	19	4	1	---	---	---	---	---	---	5	1,064
35 to 40.....	67	126	176	93	78	22	5	---	---	---	---	---	---	---	2	569
40 to 45.....	13	61	78	71	51	38	9	4	1	---	---	---	---	---	---	326
45 to 50.....	7	19	30	42	49	48	24	6	2	---	---	---	---	---	1	223
50 to 55.....	3	6	14	23	34	31	25	16	6	5	1	---	---	---	1	165
55 to 60.....	1	3	11	9	8	26	25	10	11	3	1	1	---	---	3	112
60 to 65.....	1	---	4	4	7	16	19	23	13	9	1	---	---	---	---	97
65 to 70.....	---	1	2	1	2	5	5	5	9	6	8	---	---	---	1	45
70 to 75.....	1	---	2	1	1	1	3	5	2	2	6	1	---	---	---	25
75 to 80.....	---	---	---	---	---	---	---	8	---	5	---	---	---	1	---	9
80 and over.....	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
Unknown.....	1	3	---	1	---	---	---	---	---	---	---	---	---	---	70	75
Total Femal's	3,614	3,789	1,358	485	302	220	122	75	43	81	16	2	1	1	192	10,131

Table X. is a very comprehensive table, but one which seems to require a little explanation to those not familiar with it. It exhibits for each period of age the number of each sex married, and the manner of their union as regards age stated in periods of years. It shows, for instance, that 293 males aged under 20, married females aged as follows: 228, under 20; 59, 20 to 25; 4, 25 to 30; 1, 30 to 35; and 1 aged 35 to 40. Turning to the column of "Total females," we find that

3,614 aged under 20 were married to males aged as follows: 228, under 20; 2,143, 20 to 25; 943, 25 to 30; 206, 30 to 35; 67, 35 to 40; 13, 40 to 45; 7, 45 to 50; 3, 50 to 55; 1, 55 to 60; 1, 60 to 65; 1, 70 to 75; and 1 whose age was unknown.

The greatest number of marriages of males and of females were of those aged 20 to 25, the number of males at such ages being 4,113, and the number of females 3,789.

The greatest number of marriages of one sex at one period of age to the greatest number of the opposite sex at any period, was, as is usually the case, of females aged under 20 to males aged 20 to 25; the number of such marriages returned for 1871 being 2,143.

Table XI. exhibits some of the most remarkable marriages so far as relates to disparity of age, and to unusual age. It will be noticed that many of them are not legal marriages, while some are marked instances of entire disregard of the law of the State; thus, in Kalamazoo county, the "bride" in one of these sham marriages is stated to be twelve years of age. The name of the minister of the gospel who thus rendered himself liable to serve a year in the county jail is on record with the clerk of the county, and also in the State Department.

TABLE XI.—*Marriages, with great Disparity of Age, in Michigan during the Year ending December 31, 1871.*

COUNTIES.	BRIDEGROOM OLDEST.			BRIDE OLDEST.		
	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.
Allegan.....	Farmer.....	* 40	* 16	Farmer.....	26	33
Barry.....	Farmer.....	62	28	.....	.....	.....
Bay.....	Lumberman.....	55	21	.....	.....	.....
Benzie.....	Farmer.....	67	24	.....	.....	.....
Berrien.....	Physician.....	58	17	.....	.....	.....
Branch.....	Attorney at law.....	60	26	Farmer.....	23	39
Calhoun.....	Machinist.....	47	16	Laborer.....	^b 24	^b 40
Cass.....	Farmer.....	67	33	Cabinet-maker.....	29	39
Cheboygan.....	Merchant.....	56	25	.....	.....	.....
Clinton.....	Farmer.....	71	38	.....	.....	.....
Eaton.....	Farmer.....	55	16	.....	.....	.....
Genesee.....	Farmer.....	40	17	.....	.....	.....
Grand Traverse.....	Farmer.....	29	15	.....	.....	.....
Gratiot.....	Physician.....	57	20	.....	.....	.....
Hillsdale.....	Farmer.....	74	19	Brakeman.....	20	30
Huron.....	Farmer.....	48	23	.....	.....	.....
Ingham.....	Farmer.....	46	21	Farmer.....	20	37
Ionia.....	Farmer.....	45	17	Farmer.....	26	40
Isabella.....	Mechanic.....	35	19	.....	.....	.....
Jackson.....	Farmer.....	71	32	Carpenter.....	28	49
Kalamazoo.....	{ Barber.....	^b 60	^b 34	Farmer.....	19	25
	{ Farmer.....	19	12	.....	.....	.....
Kent.....	Painter.....	57	28	Farmer.....	22	37
Lapeer.....	Farmer.....	30	16	.....	.....	.....
Leelanaw.....	Farmer.....	68	31	.....	.....	.....
Lenawee.....	Farmer.....	23	13	Farmer.....	^c 29	^c 44
Livingston.....	{ Laborer.....	52	18	.....	.....	.....
	{ Farmer.....	66	26	.....	.....	.....
Macomb.....	Physician.....	58	27	Farmer.....	29	49

* Colored.

^b African.^c Mulatto.

TABLE XI.—CONTINUED.

COUNTIES.	BRIDEGROOM OLDEST.			BRIDE OLDEST.		
	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.	OCCUPATION OF BRIDEGROOM.	Age of Bride- groom.	Age of Bride.
Manistee.....	Farmer.....	51	15	Laborer.....	26	43
Marquette.....	Miner.....	42	22	Contractor....	16	21
Mason.....	Farmer.....	35	17	Laborer.....	75	* 80
Mecosta.....	Physician.....	69	48	.....	.....	.....
Midland.....	Laborer.....	88	14	.....	.....	.....
Monroe.....	Farmer.....	33	17	Farmer.....	29	40
Montcalm.....	Farmer.....	45	24	.....	.....	.....
Muskegon.....	Farmer.....	37	18	Farmer.....	27	35
Newaygo.....	Mechanic.....	39	16	{ Engineer.....	15	23
				{ Farmer.....	26	36
Oakland.....	{ Farmer.....	39	19	Farmer.....	21	34
	{ Laborer.....	^b 45	^b 16			
Oceana.....	Laborer.....	39	19	.....	.....	.....
Ontonagon.....	Carpenter.....	35	17	Carpenter.....	35	45
Osceola.....	Workman.....	51	30	.....	.....	.....
Ottawa.....	{ Engineer.....	36	15	{ Farmer.....	56	77
	{ Carpenter.....	35	17		52	70
Saginaw.....	{ Merchant.....	44	18	{ Baker.....	30	49
	{ Farmer.....	54	22		25	45
Sanilac.....	Hotel-keeper...	40	20	{ Carpenter.....	26	43
					21	26
Shiawassee.....	Farmer.....	35	18	Farmer.....	24	34
St. Clair.....	{ Farmer.....	45	19	{ Laborer.....	23	37
	{ Laborer.....	38	16		17	30
St. Joseph.....	{ Trapper.....	56	28	.....	.....	.....
	{ Farmer.....	60	40			
Tuscola.....	Merchant.....	49	17	Blacksmith.....	22	35
Van Buren.....	{ Farmer.....	60	33	Farmer.....	27	36
	{ Farmer.....	70	46			
Washtenaw.....	Laborer.....	^b 73	^c 26	Farmer.....	32	50
Wayne.....	{ Shoemaker.....	^b 16	^b 16	{ Farmer.....	22	42
	{ Farmer.....	45	15		19	36
Wexford.....	Farmer.....	25	15	.....	.....	.....

* Indian.

^b African.^c Mulatto.

TABLE XII.—*Exhibiting, for the State and Counties, the Number of Marriages in Michigan during the Years 1868, 1869, 1870, and 1871, as first Returned to the State Department; the Number Solemnized during the Years 1868, 1869, and 1870, Returned since the publication of the Annual Reports; the Population June 1, 1870; Number of Inhabitants in 1870 to one Marriage in 1871; and the Per Cent. of Marriages in 1871 to Population in 1870.*

STATE AND COUNTIES.	1868.				1869.				1870.				No. returned. 1871.	Population June 1, 1870. ^a	No. of Inhabitants June 1, 1870. to one marriage in 1871.	Per Cent. of marriages in 1871 to population June 1, 1870. ^a
	No. as first returned in Report.	No. returned previ- ous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previ- ous to May 1, 1873.	No. as first returned in Report.	No. returned previ- ous to November 1, 1871.	No. returned since November 1, 1871.	No. returned previ- ous to May 1, 1873.	No. as first returned in and published in Report.	No. returned since pub- lished.	No. returned previ- ous to May 1, 1873.					
State.....	6,562	8,005	80	8,085	8,450	10,088	96	10,184	9,100	488	9,648	10,181	1,176,689	116	.86	
Alcona.....	.....	.....	.....	.....	5	1	.....	7	8	.....	8	8	6,766	255	.89
Allegan.....	167	239	.....	239	260	260	.....	260	277	1	278	215	82,105	149	.66
Alpena.....	24	24	.....	24	42	42	1	43	6	1	7	26	2,756	106	.94
Antrim.....	15	15	.....	15	14	14	.....	14	16	.....	16	18	1,955	110	.90
Barry.....	180	148	.....	148	140	167	1	168	169	1	170	156	22,200	142	.70

^b Includes population of Oscoda County.

Except of counties from which no returns of marriages in 1871 were received.

TABLE XII.—CONTINUED.

COUNTIES.	MARRIAGES.											
	1868.				1869.				1870.			
	No. as first returned in Report.	No. returned previous to November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned in Report.	No. as first returned in Report.	No. returned since November 1, 1871.	No. returned previous to May 1, 1873.	No. as first returned in Report.	No. returned since Report was published.	No. returned previous to May 1, 1873.	No. returned.	1871.
Bay.....	113	113	2	115	86	6	92	125	1	126	118	15,900
Benzie.....	.....	.....	.....	.....	12	12	12	18	.....	13	17	2,184
Berrien.....	325	448	1	449	314	381	392	288	67	355	377	85,104
Branch.....	209	264	.....	264	235	275	275	265	6	271	263	26,327
Calhoun.....	217	280	.....	280	164	278	278	280	7	287	270	86,571
Cass.....	170	223	1	224	149	181	181	188	1	189	199	21,096
Charlevoix.....	.....	.....	.....	.....	6	6	6	18	.....	18	18	1,724
Cheboygan.....	9	9	.....	9	5	15	15	14	.....	14	21	2,197
Chippewa.....	.....	.....	.....	.....	.....	13	13	13	.....	13	11	1,690
Clare.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	866
Clinton.....	187	191	.....	191	156	218	218	177	4	181	163	22,851
												28
												8.55
												186
												.73
												No. of Inhabitants June 1, 1870.
												To one marriage in 1871.
												Per Cent. of marriages in 1871, to population June 1, 1870.

	5	15	15	6	6	6	21	21	15	2,441	168	.61
Delta.....	113	161	148	198	198	198	911	911	225	25,163	119	.60
Easton.....	15	15	12	13	13	13	11	11	14	1,911	87	1.15
Emmet.....	132	276	1	277	248	331	806	4	254	88,895	188	.74
Genesee.....	52	52	81	36	86	86	20	20	83	4,448	185	.74
Grand Traverse.....	85	85	90	90	90	90	74	74	110	11,908	107	.98
Grafton.....	210	277	223	328	2	890	320	5	329	31,698	98	1.01
Hillsdale.....	62	62	63	63	9	73	72	24	90	18,882	104	.64
Houghton.....	47	47	67	67	67	67	72	72	68	9,048	144	.69
Huron.....	104	117	163	220	1	321	208	6	314	25,968	108	.98
Ingham.....	184	224	206	240	2	342	211	5	240	37,675	111	.80
Ionia.....	13	13	14	14	14	14	28	28	44	8,175	73	1.88
Iosco.....	40	49	32	32	32	32	87	87	88	4,118	108	.92
Isabella.....	171	269	256	339	15	354	214	136	307	36,040	117	.85
Jackson.....	210	299	281	334	1	385	330	3	333	32,065	107	.98
Kalamazoo.....									8	424	141	.70
Kalkaska.....									489	50,410	108	.97
Kent.....	399	399	505	515	9	524	399	25				....
Keweenaw.....												....
Lake.....												....
Lapeer.....	106	140	139	173	....	173	184	1	185	21,342	188	.72
Leelanaw.....	45	46	42	43	....	43	29	....	43	4,577	106	.93

* Except of counties from which no returns of marriages in 1871 were received.

MARRIAGES—CORRECTED BY COUNTIES.

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	189	146	1	147	218	224	4	383	204	9	218	206	27,475	188	74
Misaukut.....	122	146	1	147	218	224	4	383	204	9	218	206	27,475	188	74
Monroe.....	70	80	---	80	88	96	---	96	90	---	90	125	18,641	109	.91
Montcalm.....	70	71	---	71	158	158	---	158	101	---	101	129	14,893	115	.86
Muskegon.....	51	54	---	54	58	58	---	58	47	12	59	66	7,992	110	.90
Newaygo.....	138	207	1	207	880	882	2	884	311	10	321	384	40,006	192	.81
Oakland.....	77	81	---	81	64	79	---	79	54	---	54	60	7,292	190	.83
Oceana.....	7	9	---	9	15	15	---	15	9	---	0	6	2,846	474	.91
Ontonagon.....	---	---	---	---	15	15	---	15	14	---	14	81	2,104	68	1.47
Osceola.....	---	---	---	---	177	215	---	215	180	7	187	202	26,650	182	.75
Ottawa.....	188	207	---	207	---	---	---	---	---	---	---	---	---	---	---
Presque Isle.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Saginaw.....	152	153	1	158	182	88	---	88	809	1	310	343	38,098	102	.97
Sanilac.....	77	93	---	92	91	107	---	107	91	---	91	96	14,565	182	.65
Schoolcraft.....	---	---	---	---	---	---	---	---	2	---	2	---	---	---	---
Shiawassee.....	155	158	---	156	129	170	---	170	114	8	122	146	20,822	143	.70
St. Clair.....	229	229	16	245	264	266	12	278	285	23	308	304	86,709	121	.82
St. Joseph.....	214	290	---	290	299	312	1	313	281	5	296	309	26,272	85	1.17
Tuscola.....	76	77	---	77	74	74	---	74	97	---	97	111	13,715	134	.80
Van Buren.....	167	227	---	227	179	233	1	234	308	5	213	221	28,895	180	.76
Washtenaw.....	216	287	---	287	300	363	1	364	288	25	313	300	41,440	188	.72
Wayne.....	564	798	---	798	904	1,148	1	1,149	919	48	967	1,111	119,068	107	.93
Wexford.....	---	---	---	---	4	4	---	4	5	---	5	8	650	81	1.25

* Except of counties from which no returns of marriages in 1871 were received.

EXHIBIT D.—*Number of Inhabitants to one Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties Represented by Returns of Marriages.*

COUNTRY, STATE, OR CITY.	Year for which the Statement is made.	Inhabitants to one Marriage Annually.
Austria.....	.....	117
Bavaria.....	.....	160
Belgium.....	.....	122
Denmark.....	.....	129
England.....	.....	129
Finland.....	.....	141
France.....	.....	122
Greece.....	.....	174
Holland.....	.....	129
Norway.....	.....	124
Prussia.....	.....	106
Russia.....	.....	111
Saxony.....	.....	107
Spain.....	.....	141
Sweden.....	.....	135
United States.....	1860	122
New York.....	1860	135
Massachusetts.....	1865	97
Ohio.....	.....	105
Minnesota.....	1860	110
Minnesota.....	1868	107
Minnesota ^a	1870	116
Massachusetts ^b	1870	98.9
Michigan ^c	1869	109.8
Michigan ^d	1870	120.7
Michigan ^{c e}	1871	121.0
New Jersey ^f	1870	135.
New York City ^g	1869	103.
New York City ^h	1870	118.

Taken from "Statistics of Minnesota for 1869."

^a Taken from "Statistics of Minnesota for 1870."

^b Computed from data in 29th Reg. Report of Massachusetts.

^c Marriages corrected up to May 1, 1878. Population estimated from censuses of 1860 and 1870.

^d Marriages corrected up to May 1, 1878.

^e Marriages in some counties during last quarter of year not yet all returned.

^f There were sixteen townships from which no returns of marriages were received. Computed from data in Reg. Report of New Jersey for 1870.

^g Computed from data in Report of Met. Board of Health for 1869.

^h Computed from data in Report of Board of Health, of Health Department, for 1870.

DEATHS.

The whole number of deaths returned * as having occurred in Michigan during the year ending December 31, 1871, was 9,728. This was 1,038 less than the number returned for the year 1870, and 583 more than was returned for 1869. Judging from the returns, then, the death-rate was less during the year 1871 than during the year 1870.

TABLE I.—*Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total Returned for the Years 1868, 1869, 1870, and 1871.*

TOTALS, AND MONTHS WITH WHICH QUARTERS END.	1868.		1869.		1870.		1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
Totals.....	8,235	100.00	9,145	100.00	10,766	100.00	9,728	100.00
March.....	1,789	21.70	1,758	19.22	1,698	15.77	1,888	19.41
June.....	* 1,568	19.04	1,994	21.80	2,121	19.70	2,097	21.55
September.....	2,771	33.64	2,949	32.24	3,920	36.41	2,926	30.08
December.....	2,046	24.84	2,396	26.20	2,992	27.79	2,760	28.37
Unknown.....	63	.76	48	.52	35	.32	57	.58
Average.....	2,058.75	25.00	2,286.25	25.00	2,691.50	25.00	2,432	25.00

*The number of deaths for the month of April, 1868, was increased by one-fifth of the number published in the Second Registration Report, because of first five days not accounted for.

The proportion of deaths by quarters of the year was very different in the two years, 1870 and 1871, as may be seen by

*The number of deaths which probably occurred has been estimated at 15,665, as shown in Exhibit G, wherein correction is made for omissions in enumerating.

examining Table I., which exhibits the number and per cent. of deaths returned for each quarter of the years 1868, 1869, 1870, and 1871. The proportion of deaths returned for the last half of 1870 and the first half of 1871 was considerably greater than during the first half of 1870 and the last half of 1871, so that if the years be made to begin June 1, as in the United States Census, the number of deaths in the year ending May 31, 1870, is found to be less than during the year ending May 31, 1871, but it will be seen from Table I. that this is due to the unusually large proportion of deaths returned for the quarter ending with September, 1870. By Table II. it will be seen that the increase in the deaths returned began in June, 1870. That the enumeration for the United States Census began June 1, 1870, and was in progress during the three months following, is a fact which may or may not have any significance in this connection. As stated in last Report, "the year 1870 is believed to have been attended with more than an average rate of mortality." It may be true that at least some proportion of this increased mortality was only apparent, and that this appearance was the result of an increased thoroughness of the enumeration, due to increased attention attracted to the subject by the labors of census enumerators and other officials. Table II. of births, in this Report, does not seem to furnish evidence giving much support to this supposition, but the subject seems worthy of notice and of examination whenever future censuses shall make it possible.

The averages, as usually given, of deaths as returned were as follows:

Average number of deaths per quarter.....	2,432.00
Average number of deaths per month.....	810.66
Average number of deaths per week.....	187.07
Average number of deaths per day.....	26.65

It should be remembered, however, that it is not probable that all deaths are returned. Further on, certain correc-

tions will be exhibited which lead to the belief that if the deaths had been enumerated in the months when they occurred the number returned would have been 15,665, instead of 9,728. It is thus found that the average numbers of deaths which probably occurred during specified periods of time were as follows :

Average number of deaths per quarter.....	3,916.25
Average number of deaths per month.....	1,305.42
Average number of deaths per week.....	301.25
Average number of deaths per day.....	42.02

TABLE II.—Deaths in Michigan by Months, Exhibiting the Number and Per Cent. of Total Returned for the Years 1868, 1869, 1870, and 1871, the Months arranged in order by Number of Deaths, the greatest Number first.

ORDER.	Year and Months.	1868.		Year and Months.	1869.		Year and Months.	1870.		Year and Months.	1871.	
		Number.	Per Cent. of Total.		Number.	Per Cent. of Total.		Number.	Per Cent. of Total.		Number.	Per Cent.
	Year..	8,235	100.00	Year..	9,145	100.00	Year..	10,766	100.00	Year..	9,728	100
1	Sept...	1,041	12.51	Sept..	1,194	13.05	Aug..	1,473	13.59	Aug..	1,083	11
2	Aug...	988	11.98	Aug...	1,068	11.60	Sept..	1,363	12.66	Sept..	1,055	10
3	Oct....	776	9.42	Oct....	874	9.55	Oct...	1,132	10.51	Dec..	1,029	10
4	July ..	747	9.07	Dec....	836	9.14	July ..	1,084	10.06	Oct...	933	9
5	March.	669	8.12	March.	761	8.32	Nov..	933	8.66	Nov..	798	8
6	Dec. ..	668	8.11	April..	712	7.78	Dec...	927	8.61	July..	788	8
7	Nov...	602	7.31	July ..	687	7.51	June..	754	7.00	Mar...	781	8
8	Feb. ...	583	7.07	Nov. ...	686	7.50	Mar...	724	6.73	May..	750	7
9	April *	583	7.07	May...	652	7.13	May...	689	6.39	April.	721	7
10	Jan....	535	6.49	June...	630	6.89	April.	678	6.29	June..	626	6
11	May...	503	6.10	Feb. ...	561	6.13	Feb...	553	5.13	Feb...	578	5
12	June..	482	5.85	Jan....	496	4.77	Jan...	421	3.91	Jan...	529	5
	Unk...	63	.76	Unk...	48	.52	Unk..	35	.32	Unk...	57	
	Av.....	636.25	8.33	Av.....	762.08	8.33	Av...	897.16	8.33	Av...	810.66	8

* The number of deaths for April, 1868, is increased by one-fifth of the number published in the Second Registration Report, for the reason that the first five days of the month were not included in that Report. The number for the last twenty-five days was 486; $486 \div 5 = 97$; $486 + 97 = 583$ —estimated number of deaths for April, 1868.

Table II. exhibits the mortality by months, as appears in the returns of deaths for the years 1868, 1869, 1870, and 1871, the months being so arranged that those come first for which the greatest number of deaths were returned. In 1871, as in 1870, the greatest number were returned for August and the least number for January.

No attempt will be made in this connection to trace, as has heretofore been done, the causes assigned for the deaths in the months for which the greatest number were returned, for the reason that, if these statistics are ever to be studied in that manner,

ner, as it certainly seems desirable to do, we want first to know the real proportion by months, and there is reason for the belief that under the present law we do not learn this by accepting the immediate statements of the returns, but must first make a correction for the omission of deaths because their record and enumeration is delayed until after the close of the year for which the returns are made.

An examination of Exhibit B, and more particularly the two columns for Michigan during the census year, will convince one that an attempt to learn the exact order of greatest mortality by months is a difficult undertaking, as these statistics are now collected. An effort has been made, however, as will be seen by Exhibits C, D, E, F, and G, and remarks concerning them.

TABLE III.—*Number and Percentage of Deaths of Males and Females from all Causes, as Returned, by Months. (Unknown Sex Excluded.)*

YEAR AND MONTHS.	NUMBER.		PERCENTAGE.				Males to 100 Femal's
	Males.	Femal's	Males.	Femal's	EXCESS.		
					Males.	Femal's	
Year 1871.....	5,190	4,508	53.54	46.46	7.08	.....	115.3
January.....	290	238	54.92	45.08	9.84	.....	121.0
February.....	283	293	49.13	50.87	.....	1.74	96.6
March.....	418	359	53.80	46.20	7.60	.....	116.4
April.....	379	342	52.57	47.43	5.14	.....	110.8
May.....	379	369	50.67	49.33	1.34	.....	102.7
June.....	329	295	52.72	47.28	5.44	.....	111.5
July.....	442	342	56.38	43.62	12.76	.....	129.2
August.....	572	507	53.01	46.99	6.02	.....	112.8
September.....	562	490	53.42	46.58	6.84	.....	114.7
October.....	507	421	54.63	45.37	9.26	.....	120.4
November.....	444	352	55.73	44.22	11.56	.....	126.1
December.....	557	469	54.29	45.71	8.58	.....	118.8
Unknown months.....	28	26	51.85	48.15	3.70	.....	107.7

EXHIBIT A.—Deaths of each Sex, and Total Number, in Michigan during the Year 1871, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths of each Sex to Total of both Sexes. Deaths during the year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.

YEAR AND MONTHS.	NUMBER OF DEATHS, AS EQUALIZED.				PER CENT. OF DEATHS IN EACH MONTH TO TOTAL DURING THE YEAR.				PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES, UNKNOWN EXCLUDED.			
	Total.	Males.	Females.	Un-known.	Total.	Males.	Females.	Un-known.	Males.	Females.	EXCESS.	
											Males.	Fem'ls.
Year 1871.....	9,728	5,190	4,503	35	100.00	100.00	100.00	100.00	53.54	46.46	7.08	-----
January.....	521	285	235	1	5.35	5.49	5.22	2.86	54.81	45.19	9.62	-----
February.....	629	309	318	2	6.47	5.95	7.06	5.71	49.38	50.72	-----	1.44
March.....	768	411	338	4	7.89	7.92	7.84	11.43	53.80	46.20	7.60	-----
April.....	733	386	347	-----	7.53	7.44	7.70	-----	52.66	47.34	5.32	-----
May.....	737	373	362	2	7.55	7.19	8.04	5.71	50.75	49.25	1.50	-----
June.....	695	354	299	2	6.53	6.44	6.64	5.71	52.76	47.24	5.52	-----
July.....	774	435	335	4	7.96	8.98	7.44	11.43	56.49	43.51	12.98	-----
August.....	1,065	562	499	4	10.95	10.83	11.08	11.43	52.97	47.03	5.94	-----
September.....	1,071	571	497	3	11.01	11.00	11.04	8.57	53.46	46.54	6.92	-----
October.....	916	498	413	5	9.42	9.50	9.17	14.28	54.67	45.33	9.34	-----
November.....	810	451	357	2	8.33	8.69	7.93	5.71	55.82	44.18	11.64	-----
December.....	1,012	547	462	3	10.40	10.54	10.26	8.57	54.21	45.79	8.42	-----
Unknown.....	57	28	26	3	.59	.54	.58	8.57	51.85	48.15	3.70	-----
Average.....	805.917	430.167	373.053	2.667	8.83	8.83	8.83	8.83	-----	-----	-----	-----

^a Unknown month excluded.

EXHIBIT B.—Months arranged in Order by Number of Deaths,—those having the greatest Number first,—in Massachusetts for the Years 1867 to 1870, inclusive; in Kentucky for the Year 1853; in Michigan for the Census Year ending June 1, 1870, by the U. S. Census and by the State Registration Returns, for the Years 1869, 1870, and 1871 as per Registration Returns, and for the Years 1870 and 1871 Corrected for Omissions in Enumeration; also in Rhode Island for the Year 1871.

ORDER.	MASSACHUSETTS.				KENTUCKY.	MICHIGAN, FOR THE CENSUS YEAR ENDING JUNE 1, 1870.		MICHIGAN, AS PER REGISTRATION RETURNS.				MICHIGAN,—CORRECTED FOR OMISSIONS IN ENUMERATION.			RHODE ISLAND.
	1867.	1868.	1869.	1870.		Returned by Census Marshals.	Registrat'n Returns.	1869.	1870.	1871.	1870.	1871.	1870.	1871.	
1	Aug.	Aug.	Aug.	Aug.	Aug.	March.	Sept.	Sept.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.
2	Sept.	Sept.	Sept.	July.	July.	May.	Aug.	Aug.	Sept.	Sept.	Sept.	Sept.	Sept.	Sept.	July.
3	Dec.	July.	March.	Sept.	Sept.	Aug.	Oct.	Oct.	Oct.	Dec.	July.	March.	July.	March.	Sept.
4	Jan.	March.	July.	Oct.	Oct.	Sept.	Dec.	Dec.	July.	Oct.	Oct.	Dec.	Oct.	Dec.	Dec.
5	March.	Oct.	Oct.	March.	Dec.	April.	March.	March.	Nov.	Nov.	March.	Oct.	March.	March.	March.
6	July.	Dec.	May.	Dec.	June.	Feb.	May.	April.	Dec.	July.	June.	May.	June.	Feb.	Feb.
7	Nov.	April.	April.	Nov.	March.	Oct.	July.	July.	June.	March.	April.	April.	April.	Oct.	Oct.
8	Oct.	Feb.	Dec.	Jan.	April.	Dec.	Nov.	Nov.	March.	May.	Nov.	July.	Nov.	Jan.	Jan.
9	May.	Jan.	Jan.	May.	Nov.	Jan.	April.	May.	May.	April.	May.	Feb.	May.	Nov.	Nov.
10	Feb.	Nov.	Feb.	April.	Feb.	July.	June.	June.	April.	June.	Dec.	Nov.	Dec.	April.	April.
11	April.	May.	Nov.	Feb.	May.	Nov.	Feb.	Feb.	Feb.	Feb.	Feb.	Jan.	Feb.	May.	May.
12	June.	June.	June.	June.	Jan.	June.	Jan.	Jan.	Jan.	Jan.	Jan.	June.	Jan.	June.	June.

For the ninth United States Census the Marshals enumerated and returned the details of the deaths which occurred during the year ending June 1, 1870. In compiling these statistics the writer was able to compare them with similar statistics relating to the deaths during the same time but which were collected by different officers at a different time; in fact, part of the registration statistics for the census year were collected by the Supervisors in May, 1870, and part in May, 1871. This comparison revealed the fact that the statistics collected by the Supervisors for the first seven months of the census year,-- June to December, 1869, inclusive,--were very similar to those collected by the Assistant Marshals. This may be best seen by examining the diagram representing the deaths by the registration returns and by the census, as returned and as corrected. By this same diagram it will be seen, however, that for the last five months of the census year there was a marked difference in the statistics from these two sources. Compared with the census returns, it will be seen that the number of deaths returned by the Supervisors dropped down to a lower plane. So far as appears to the writer, the only fact which will satisfactorily account for this difference is the one connected with the different time at which the deaths during the last five months of the census year were enumerated, they being collected by the Supervisors in May, 1871, while those during the preceding seven months were collected in May, 1870. By the census, the deaths for the year were enumerated in June, July, and August, 1870. It seems reasonable to conclude that the greater length of time which passed before the deaths for the last five months were enumerated is the cause of the discrepancy in the statistics, and that if they had been enumerated one year before, the line representing them in the diagram would have continued on to the close of the census year with, or above, the line representing the deaths as returned by the Census Marshals. We thus find evidence which leads to a "correction for one year additional time before enumeration,"

as shown in the second line of Exhibit C, and which is arrived at as follows:

Census.		Registration.	
Dec., 1869	: Jan., 1870.	Dec., 1869	: Jan., 1870.
801	: 800 ::	836	: X

whence $X=834$. The number actually returned by the Supervisors was only 421. $834-421=413=98.09$ per cent. of 421, the number returned. An examination of the statistics leads to the belief that the omissions bear such a relation to the time elapsing before the enumeration of deaths that it is proper to correct them in proportion to the length of that time; so that if a delay of one year results in omissions which require that deaths returned be increased by 98.09 per cent., in order to make them equal the number which occurred, a delay of one month requires that they be increased by one-twelfth of 98.09 per cent., and in the same proportion for intervening periods of time. It thus seems probable that during the census year the number of deaths which occurred in Michigan was 16,802 instead of 9,040, as returned. The line in Exhibit C, entitled "Deaths corrected as if enumerated in months of occurrence," exhibits the probable number of deaths in each month of the census year.

The enumeration of deaths was performed by the Census Marshals in the same manner as by the Supervisors. It is therefore assumed that the omissions were in about the same proportion.

In Exhibit E may be seen the deaths as returned by the Census Marshals, and the same as corrected upon the same principle as were the deaths returned by the Supervisors. The exhibit is printed here in order to bring together the evidence bearing upon the subject.

Deaths corrected as if enumerated in months of occurrence..	1,196	1,248	1,833	1,974	1,974	1,022	1,178	1,106	1,854	1,609	1,430	1,265
Per cent. of deaths to be added to equalize them to population at close of year.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year.....	385	48	65	62	39	25	25	10	19	18	10	6
Deaths as corrected, equalized to population at close of year.	17,187	1,246	1,018	2,036	1,413	1,047	1,208	1,125	1,853	1,637	1,463	1,370
Days and hundredths by which the months should be increased or diminished to equalize them to a uniform length.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number by which the deaths should be increased or diminished to equalized them to months of uniform length.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Deaths corrected and equalized to months of uniform length.	17,211	1,264	1,273	1,853	2,066	1,858	1,062	1,151	1,105	1,508	1,657	1,345

* Excluding 48 in unknown month.

EXHIBIT D.—Exhibiting, by Months, and the Total Number for the Census Year ending June 1, 1870, the Deaths as returned by Registration Officers; the Number of Deaths for the last five Months of the Census Year, increased by an Estimated Correction for Omissions resulting from one year Additional time elapsing before Enumeration, giving the Number as it would have been if Enumerated in May, 1870, instead of May, 1871; the Number of Deaths for the Census Year, increased by an Estimated Correction for Omissions resulting from the time elapsing before Enumeration, giving the Number as it would have been if Enumerated in Months of Occurrence; the Deaths so Corrected, Equalized to a supposed uniform Population equaling that at close of year; and the Deaths thus Corrected and Equalized, Equalized to Months of uniform length.

	Total.	1869.							1870.				
		June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.
Deaths as returned by registration officers.....	9,040	680	687	1,068	1,194	874	686	836	421	553	724	678	689
Deaths, if enumerated in May, 1870, instead of May, 1871.....	6,071	.....	.....	.....	.....	.....	.....	.....	884	1,595	1,484	1,843	1,865
Deaths corrected as if enumerated in months of occurrence..	16,802	1,196	1,248	1,853	1,974	1,874	1,022	1,178	1,100	1,864	1,669	1,453	1,865
Deaths as corrected, equalized to population at close of year.	17,187	1,246	1,296	1,918	2,086	1,418	1,047	1,208	1,125	1,883	1,687	1,463	1,870
Deaths corrected and equalized to months of uniform length.	17,211	1,264	1,273	1,883	2,066	1,888	1,062	1,181	1,105	1,808	1,687	1,484	1,845

The five lines in Exhibit D are graphically represented in Diagram No. 3. The first and last lines of Exhibits D and E are illustrated in Diagram No. 4.

DIAGRAM N° 3.

Deaths in Michigan during year ending June 1 1870.....as returned.....as corrected for delay of one year.....corrected as if enumerated in months of occurrence.....equalized to uniform population.....as corrected and equalized to uniform population and to months of uniform length.

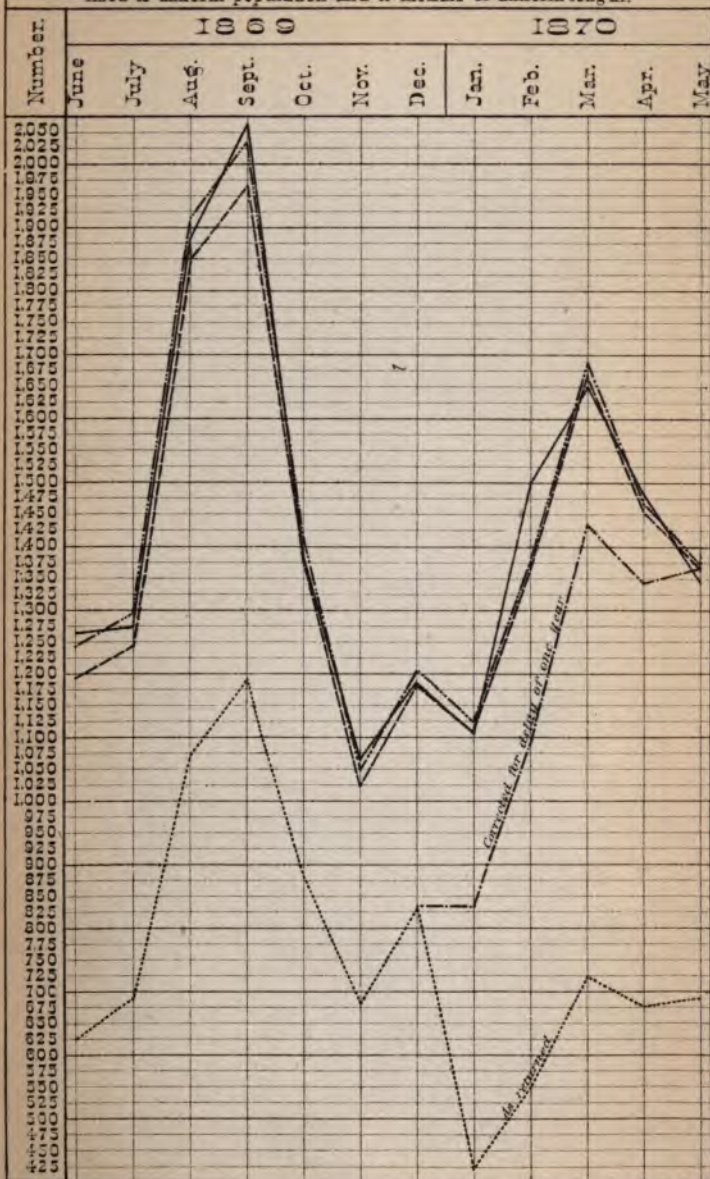




DIAGRAM N° 4.

Deaths in Michigan during year ending June 1. 1870 as returned by Census Marshals and by Registration Officers and as appears by each of these enumerations after being corrected for omissions and equalized to uniform population and to months of uniform length.

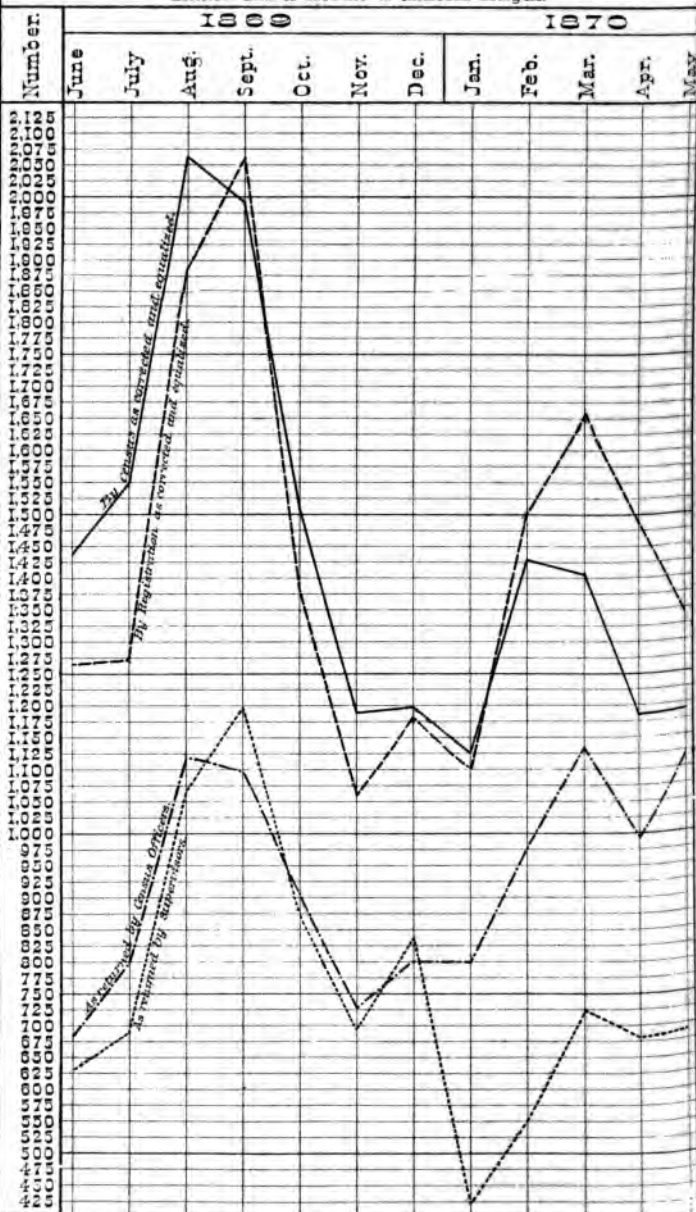


EXHIBIT E. — By Months, the Number of Deaths in Michigan during the Census Year ending June 1, 1870, as returned by Census Officers; the Number, corrected by calculation, for time elapsing before Enumeration, —giving the calculated Number that would have been returned had they been enumerated in Months of occurrence; the Number Equalized to a supposed constant Population equaling the Population at the close of the Year; and the Number of Deaths, thus estimated, equalized to Months of uniform Length of 30.44 Days.

	1869.												1870.			
	Total.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.			
Deaths, as returned by census officers, for census year.....	* 11,160	680	799	1,118	1,097	905	727	801	800	977	1,184	996	1,119			
Per cent. of deaths to be added as a correction for time elapsing before enumeration.....	.....	98.09	89.92	81.75	73.58	65.41	57.24	49.07	40.90	32.73	24.56	16.39	8.22			
Number of deaths to be added for above correction.....	5,695	674	718	914	807	692	416	393	327	320	279	163	92			
Deaths if enumerated in months of occurrence.....	16,855	1,361	1,517	2,032	1,904	1,497	1,143	1,194	1,127	1,297	1,413	1,159	1,211			
Per cent. of deaths to be added to equalize them to population at close of year.....	.....	4.21	3.86	8.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35			
Deaths to be added to equalize them to population at close of year.....	b 407	57	59	71	60	42	28	25	20	18	15	8	4			
Deaths, as corrected, equalized to population at close of year.....	17,262	1,418	1,576	2,103	1,964	1,539	1,171	1,219	1,147	1,315	1,428	1,167	1,215			
Days and hundredths by which the months should be increased or diminished to equalize them to uniform length.....	.....	+44	-56	-56	+44	-56	+44	-56	-56	+244	-56	+44	-56			
Deaths corrected and equalized, equalized to months of uniform length.....	+13	+21	-28	-68	+29	-28	+17	-22	-21	+114	-20	+17	-22			
Deaths corrected and equalized, equalized to months of uniform length.....	17,275	1,459	1,548	2,065	1,993	1,511	1,188	1,197	1,126	1,429	1,402	1,184	1,193			

* Excluding 22 in unknown month.
 b Estimated population in 1869 was 1,131,000; in 1870, by same estimate, it was 1,184,672. Assuming the increase of population to have been the same in every month of the year, the average population in which the deaths were collected was 1,158,186. Then $1,158,186 : 16,855 :: 1,184,672 : x$, whence x equals 17,241; $x - 16,855 = 386$, —the number to be added to equalize to population June 1, 1870. The discrepancy between this and the result (407) is due to the fact that in this table the number of deaths in the months opposite which the greatest per cent. is placed chanced to be slightly larger than the average. It is as near as is practicable.

EXHIBIT F.—Deaths in Michigan during the Year 1870 as Returned; as Corrected for Omissions in Enumerating, the same Equalized for Increase of Population during the Year covered by the Returns; and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also Indicating some of the steps by which these results have been reached.

	Total.	YEAR 1870.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.....	• 10,731	421	538	724	675	689	754	1,054	1,478	1,838	1,182	968	927
Per cent. of deaths to be added for correction for time elapsing before enumeration.....	.....	130.79	122.62	114.45	106.37	98.09	89.92	81.75	73.58	65.40	57.32	49.94	40.87
Number of deaths to be added for above correction.....	8,479	555	678	829	721	676	678	886	1,054	891	648	458	379
Deaths if enumerated in months of occurrence.....	19,210	972	1,231	1,553	1,396	1,365	1,432	1,970	2,537	2,724	1,780	1,391	1,306
Per cent. of deaths to be added to equalize them to population at close of year.....	.....	4.21	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.55
Deaths to be added to equalize them to population at close of year.....	414	41	48	55	44	38	35	42	45	32	19	10	5
Deaths, as corrected, equalized to population at close of year	19,624	1,013	1,279	1,608	1,443	1,403	1,467	2,012	2,602	2,886	1,799	1,401	1,311
Days and months by which the months should be increased or diminished to equalize them to months of uniform length.....	.....	-56	+2.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56
Number by which the deaths should be increased or diminished to equalize them to months of uniform length.....	-2	-18	+111	-20	+21	-25	+22	-36	-47	+84	-82	+21	-24
Deaths corrected and equalized, equalized to months of uniform length.....	19,622	995	1,390	1,579	1,464	1,378	1,480	1,976	2,555	2,920	1,767	1,422	1,387

* Deaths in unknown month excluded.

EXHIBIT F.—CONTINUED.—Concerning Deaths of Males Only.

DEATHS—BY MONTHS.

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	Total.	YEAR 1870.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.....	5,575	225	322	372	329	348	383	573	761	708	594	483	477
Per cent. of deaths to be added for correction for time elaps- ing before enumeration.....	104.30	97.78	91.26	84.74	75.22	75.22	71.70	65.18	58.66	52.14	45.62	39.10	32.56
Number of deaths to be added for above correction.....	3,518	235	315	339	279	272	275	373	446	369	271	189	155
Deaths if enumerated in months of occurrence.....	9,093	460	637	711	603	620	658	946	1,207	1,077	865	672	632
Per cent. of deaths to be added to equalize them to popula- tion at close of year.....	4.21	3.86	3.51	3.16	2.81	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year.....	193	19	23	25	19	17	16	20	21	15	9	5	2
Deaths, as corrected, equalized to population at close of year	9,286	479	662	736	627	637	674	966	1,228	1,092	874	677	634
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length..		-56	+2.44	-56	+44	-56	+44	-56	-56	+44	-56	+44	-56
Number by which the deaths should be increased or dimin- ished to equalized them to months of uniform length.....	42	-9	437	-13	49	-12	+10	-17	-22	+16	-16	+10	-11
Deaths corrected and equalized, equalized to months of uni- form length.....	9,238	470	719	723	636	635	684	949	1,200	1,108	868	687	628

^a Deaths in Unknown month excluded.

EXHIBIT F.—CONTINUED.—Concerning Deaths of Females only.

YEAR 1870.													
TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Deaths as returned by Registration Officers.....	5,192	229	350	347	339	369	506	707	651	592	443	449	
Per cent. of deaths to be added for correction for time elaps- ing before enumeration.....	162.06	151.93	141.80	131.67	121.54	111.41	101.28	91.15	81.02	70.89	60.76	50.63	
Number of deaths to be added for above correction.....	4,999	316	348	407	412	411	512	644	527	377	272	227	
Deaths if enumerated in months of occurrence.....	10,121	511	577	804	751	780	1,018	1,351	1,178	909	720	676	
Per cent. of deaths to be added to equalize them to popula- tion at close of year.....	4.21	8.86	8.51	8.16	7.81	7.46	2.11	1.76	1.41	1.06	.71	.35	
Deaths to be added to equalize them to population at close of year.....	216	22	22	30	25	21	19	21	24	16	9	5	2
Deaths, as corrected, equalized to population at close of year.	10,337	533	599	829	772	799	1,039	1,375	1,194	918	725	678	
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length.....	-56	+2.44	-56	+4.4	-56	+44	-56	-56	+4.4	-56	+4.4	-56	
Number by which the deaths should be increased or dimin- ished to equalize them to months of uniform length.....	-8	-10	+32	+12	-14	+12	-19	-25	+18	-17	+11	-12	
Deaths corrected and equalized, equalized to months of uni- form length.....	10,329	523	651	841	758	811	1,020	1,350	1,212	901	736	664	

a Deaths in unknown month excluded.

DEATHS—BY MONTHS.

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EXHIBIT G.—Deaths in Michigan during the year 1871 as Returned; as Corrected for Omissions in Enumerating; the same Equalized for Increase of Population during the year covered by the Returns; and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also Indicating some of the steps by which these results have been reached.

	TOTAL.	YEAR 1871.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.....	9,671	529	578	781	721	750	626	763	1,083	1,053	980	798	1,029
Per cent. of deaths to be added for correction for time elap- sing before enumeration.....	.....	100.06	98.80	87.55	81.30	75.04	68.79	62.54	56.25	50.00	43.78	37.52	31.27
Number of deaths to be added for above correction.....	5,994	529	542	684	556	563	431	493	609	528	408	299	322
Deaths if enumerated in months of occurrence.....	15,665	1,058	1,120	1,465	1,307	1,313	1,057	1,251	1,692	1,580	1,341	1,097	1,351
Per cent. of deaths to be added to equalize them to popula- tion at close of year.....	.....	4.31	8.86	8.51	8.16	2.81	2.46	2.11	1.76	1.41	1.06	.71	.35
Deaths to be added to equalize them to population at close of year.....	342	45	43	51	41	37	26	27	20	22	14	8	6
Deaths, as corrected, equalized to population at close of year	16,014	1,103	1,163	1,516	1,348	1,350	1,083	1,268	1,712	1,605	1,355	1,105	1,356
Days and 100ths by which the months should be increased or diminished to equalize them to months of uniform length.....	.....	-.56	+2.44	-.56	+4.4	-.56	+4.4	-.56	-.56	+4.4	-.56	+4.4	-.56
Number by which the deaths should be increased or dimin- ished to equalize them to months of uniform length.....	43	-20	+101	-27	+20	-24	+16	-24	-31	+24	-24	+16	-24
Deaths corrected and equalized, equalized to months of uni- form length.....	16,017	1,053	1,264	1,459	1,365	1,326	1,069	1,254	1,691	1,629	1,391	1,121	1,392

* Deaths in unknown month excluded.

TABLE IV.—Exhibiting, by Sex, and by Age in periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1871, also the Excess of Persons of each Sex.

AGES IN YEARS* AND PERIODS.	EXCESS OF THE SEXES BY NO.		NUMBER OF DEATHS.*				PER CENT. OF DEATHS AT EACH AGE TO TOTAL AT ALL AGES.				PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.				Males to 100 Females.
	Males.	Females.	Males.	Females.	Unknown.	Total.	Total.	Males.	Females.	Males.	Females.	EXCESS.			
												Males.	Females.		
All ages.....	974	826	5,187	4,504	36	9,727	100.00	100.00	100.00	100.00	53.52	46.48	7.04	115.17	
Under 1.....	271	.....	1,235	964	28	2,227	22.90	23.81	2.14	56.16	43.84	12.32	.....	128.11
1 to 2.....	94	.....	402	308	.....	710	7.30	7.75	6.84	56.62	43.38	13.24	.....	180.52
2 to 3.....	4	.....	206	202	.....	408	4.19	3.97	4.18	50.49	49.51	.98	.....	101.93
3 to 4.....	.....	12	183	145	1	279	2.87	2.56	3.33	47.84	52.16	.....	4.32	91.72
4 to 5.....	23	.....	117	94	.....	211	2.17	2.26	2.00	55.45	44.55	10.90	.....	124.46
Under 5.....	380	.....	2,093	1,713	29	3,835	39.43	40.35	38.03	54.99	45.01	9.98	.....	122.18
5 to 10.....	.....	37	265	303	2	571	5.87	5.13	6.73	46.75	53.25	.....	6.50	87.73
10 to 15.....	.....	23	134	137	1	292	3.00	2.53	3.49	46.05	53.95	.....	7.90	85.35
15 to 20.....	.....	55	159	214	.....	373	3.83	3.07	4.75	42.63	57.37	.....	14.74	71.29
20 to 25.....	.....	58	219	277	.....	496	5.10	4.22	6.15	44.15	55.85	.....	11.70	79.66
25 to 30.....	.....	71	166	237	.....	403	4.14	3.20	5.26	41.19	58.81	.....	17.62	70.04
30 to 35.....	35	161	196	357	3.67	3.10	4.35	45.10	54.90	9.80	82.14	

DEATHS—BY SEX AND PERIODS OF AGE.

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85 to 90	7	184	191	375	3.89	3.55	4.24	49.07	50.98	1.50	90.93
40 to 45	19	166	147	318	3.22	3.20	3.26	59.04	46.96	6.08	112.92
45 to 50	71	175	104	279	2.57	3.37	2.31	62.72	37.28	25.44	168.26
50 to 55	68	168	105	274	2.82	3.24	2.83	61.54	38.46	23.08	160.00
55 to 60	78	199	121	320	3.29	3.84	2.69	62.19	37.81	24.38	164.46
60 to 65	61	195	184	329	3.38	3.76	2.98	59.27	40.73	18.54	145.52
65 to 70	70	202	182	334	3.43	3.89	2.93	60.48	39.52	20.96	153.03
70 to 75	63	213	150	363	3.73	4.11	3.33	58.68	41.32	17.36	142.00
75 to 80	51	166	115	281	2.89	3.20	2.55	59.97	40.93	18.14	144.94
80 to 85	30	103	73	176	1.81	1.99	1.62	58.52	41.48	17.04	141.09
85 to 90	24	50	26	76	.78	.96	.62	65.79	34.21	31.58	192.80
90 to 95	2	22	20	42	.43	.42	.44	52.38	47.62	4.76	110.00
95 to 100	1	6	5	11	.11	.12	.11	54.55	45.45	9.10	120.00
100 and over	5	1	6	7	.07	.62	.13	14.29	85.71	71.42	16.66
Unknown ages	61	189	78	220	2.26	2.63	1.73	64.06	35.94	25.12	178.20

^a In Tables IV, V, and VI, the total number of deaths is one different, and the numbers of each sex vary one or two from those stated in the other tables. These tables were made by another person, and in a few cases the sex was not definitely stated in the returns. An effort was made to make both series of tables exactly accurate, but this was the best result reached.

TABLE V.—*Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the year and in each Month of the year 1871.*

[illegible]

15 to 20	Total	378	16	23	20	27	24	20	37	27	23	27	27	46	2
	Males	189	6	9	18	18	18	10	20	9	16	18	15	17	---
	Females	214	10	14	17	24	21	20	17	18	16	12	14	29	2
20 to 25	Total	496	26	18	37	46	44	29	39	40	48	44	40	54	8
	Males	219	12	7	16	20	12	15	16	20	23	24	25	27	2
	Females	277	14	11	21	26	32	24	23	29	25	20	24	27	1
25 to 30	Total	403	20	26	24	38	44	35	24	39	33	37	39	42	2
	Males	166	9	10	9	16	21	12	12	12	12	15	20	17	1
	Females	237	11	16	15	22	23	23	12	27	21	22	10	25	1
30 to 35	Total	357	20	23	26	30	26	29	21	31	39	44	31	43	4
	Males	161	10	10	15	7	9	17	9	14	15	18	14	22	1
	Females	196	10	13	11	13	17	12	12	17	24	26	17	21	3
35 to 40	Total	375	25	25	32	24	24	33	21	35	44	41	35	38	---
	Males	184	11	10	19	11	9	13	11	18	23	18	20	16	---
	Females	191	14	15	13	13	15	15	10	17	21	23	13	22	---
40 to 45	Total	313	20	19	23	20	24	25	24	19	27	31	39	39	3
	Males	166	10	6	15	9	13	12	12	9	12	19	25	22	2
	Females	147	10	13	8	11	11	13	12	10	15	12	14	17	1
45 to 50	Total	279	17	14	25	22	24	12	23	27	23	30	21	39	2
	Males	175	11	8	17	14	13	7	17	19	14	18	12	29	1
	Females	104	6	6	8	8	11	5	6	8	9	17	9	10	1

75 to 80.	Total	281	12	17	30	29	20	19	31	40	54	27	17	25	-----
	Males	166	8	9	8	19	11	9	14	28	22	21	7	10	-----
	Females	115	4	8	12	10	9	10	7	12	12	6	10	15	-----
	Total	176	9	6	15	13	16	14	11	19	23	13	14	21	2
80 to 85.	Males	103	2	1	9	6	12	10	8	11	13	8	7	16	-----
	Females	73	7	5	6	7	4	4	3	8	10	5	7	5	2
	Total	76	4	7	7	6	4	5	6	7	7	12	6	5	-----
	Males	50	3	3	5	3	2	3	6	5	4	7	6	3	-----
	Females	26	1	4	2	3	2	2	-----	2	3	5	-----	2	-----
90 to 95.	Total	42	5	2	4	3	5	4	3	8	4	1	4	4	-----
	Males	22	3	2	2	1	2	2	2	3	2	-----	1	2	-----
	Females	20	2	-----	2	2	3	2	1	-----	2	1	3	2	-----
	Total	11	-----	-----	-----	1	2	1	2	3	-----	1	-----	1	-----
95 to 100.	Males	6	-----	-----	-----	1	2	-----	1	1	-----	-----	-----	1	-----
	Females	5	-----	-----	-----	-----	-----	1	1	2	-----	1	-----	-----	-----
	Total	7	2	-----	-----	1	-----	-----	1	2	1	-----	-----	-----	-----
	Males	1	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----
100 and over.	Females	6	2	-----	-----	1	-----	-----	1	2	-----	-----	-----	-----	-----
	Total	220	12	8	14	17	33	13	14	15	19	26	19	19	11
Unknown.	Males	139	5	4	6	9	26	9	8	11	12	14	12	13	10
	Females	78	7	4	8	8	7	4	5	4	6	11	7	6	1
	Unknown	8	-----	-----	-----	-----	-----	-----	1	-----	1	1	-----	-----	-----

TABLE VI.—Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1871 at each and every Age, the Age stated in Twelfths of a Year for those under One, and in Years for those over One Year of Age.

AGES IN YEARS OR A YEAR.	SEX.	MONTHS.												Year 1871.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All Ages.	Total.....	9,727	577	779	722	750	626	788	1,081	1,054	988	799	1,081	58
	Males.....	5,187	288	419	379	381	380	444	669	562	507	441	556	28
	Females.....	4,504	292	356	343	367	294	340	508	489	424	355	472	27
	Unknown.....	86	1	2	4	2	2	4	4	3	5	3	3	3
Under 1-12. ^a	Total.....	924	45	59	73	68	60	72	98	72	110	78	106	8
	Males.....	521	31	34	44	38	32	38	51	38	65	53	58	1
	Females.....	384	14	24	31	29	27	34	44	32	44	23	45	.....
	Unknown.....	19	1	3	.....	1	1	.....	3	2	1	2	3	2
1-12.	Total.....	219	13	17	18	6	13	21	23	37	26	7	15	1
	Males.....	121	8	8	11	5	8	11	13	17	11	5	10	1
	Females.....	88	5	9	7	1	5	10	10	20	14	2	5	.....
	Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....

2-12.	Total.....	145	10	10	15	15	7	9	19	21	15	6	8	10	-----
	Males.....	92	8	5	10	9	2	4	13	14	11	4	6	6	-----
	Females.....	51	1	5	5	6	5	5	5	7	4	2	2	4	-----
	Unknown.....	2	1	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----
3-12.	Total.....	151	10	8	11	9	7	9	18	10	18	17	11	13	1
	Males.....	81	5	4	5	7	4	5	12	9	8	10	5	7	-----
	Females.....	67	5	3	6	2	3	4	6	9	10	6	6	6	1
	Unknown.....	3	-----	1	-----	-----	-----	-----	-----	1	-----	1	-----	-----	-----
4-12.	Total.....	121	8	8	10	8	8	3	17	19	18	9	7	11	-----
	Males.....	60	2	5	5	3	5	1	5	9	10	3	5	7	-----
	Females.....	59	1	3	5	5	3	1	12	10	8	5	2	4	-----
	Unknown.....	2	-----	-----	-----	-----	-----	1	-----	-----	-----	1	-----	-----	-----
5-12.	Total.....	117	2	6	12	3	5	6	11	22	21	12	7	10	-----
	Males.....	61	1	2	6	2	-----	5	6	9	15	5	4	6	-----
	Females.....	56	1	4	6	1	5	1	5	13	6	7	3	4	-----
	Total.....	131	6	8	11	7	10	4	21	21	24	7	3	8	1
6-12.	Males.....	71	1	5	5	2	9	2	14	18	13	2	2	3	-----
	Females.....	59	5	3	6	5	1	2	7	3	11	5	1	5	-----
	Unknown.....	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
	Total.....	82	4	6	5	5	6	5	9	14	15	5	3	5	-----
7-12.	Males.....	51	1	5	3	2	3	4	6	9	11	2	2	3	-----
	Females.....	31	3	1	2	3	3	1	3	5	4	3	1	2	-----

* Stillbirths included. See table of specified causes of death.

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

SEX.	Year 1871.	Months.													
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	
8-12.	Total.....	96	6	6	9	8	8	2	11	16	14	7	6	8	.....
	Males.....	50	4	3	6	1	4	.....	4	9	6	5	3	5	.....
	Females.....	46	2	3	3	2	4	2	7	7	8	2	3	3	.....
9-12.	Total.....	98	1	4	7	6	6	5	10	21	13	12	7	6	.....
	Males.....	49	.....	1	4	6	2	2	7	6	8	9	3	1	.....
	Females.....	49	1	3	3	.....	4	3	3	15	5	3	4	5	.....
10-12.	Total.....	81	4	6	4	8	4	2	11	20	6	7	3	5	1
	Males.....	43	3	4	1	2	2	1	7	13	4	2	2	2	.....
	Females.....	38	1	2	3	6	2	1	4	7	2	5	1	3	1
11-12.	Total.....	71	3	3	7	7	4	5	4	15	11	8	2	2	.....
	Males.....	35	1	2	2	4	3	3	1	8	7	2	1	1	.....
	Females.....	36	2	1	5	3	1	2	3	7	4	6	1	1	.....
1.	Total.....	710	84	82	85	48	44	38	69	134	94	52	45	61	4
	Males.....	402	13	16	38	23	20	23	40	70	59	33	22	38	2
	Females.....	308	16	16	17	25	24	15	29	64	35	19	23	23	2

2.	Total	408	28	35	42	26	26	25	28	42	47	33	33	42	1
	Males	206	15	15	23	16	12	14	15	19	24	14	10	10	1
	Females	202	13	20	19	10	14	11	13	23	23	19	14	28	.....
	Total	279	12	21	19	19	25	18	21	28	30	23	25	36	2
3.	Males	183	6	13	6	6	11	6	13	11	10	12	12	20	1
	Females	145	6	8	13	13	14	12	7	17	14	11	13	16	1
	Unknown	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	Total	211	15	7	17	13	11	15	14	21	21	21	23	31	2
4.	Males	117	4	2	10	7	6	7	8	13	10	17	14	13	1
	Females	94	11	5	7	6	5	8	6	8	11	4	9	13	1
	Total	162	9	12	12	12	14	17	10	17	22	12	8	17	.....
	Males	80	4	7	7	7	7	9	7	9	11	5	2	5	.....
5.	Females	82	5	5	5	5	7	8	3	8	11	7	6	12	.....
	Total	134	6	10	11	12	9	5	12	16	10	11	16	16	.....
	Males	65	4	8	5	8	4	3	7	8	5	5	4	9	.....
	Females	68	2	7	4	4	5	2	4	8	5	6	12	7	.....
6.	Unknown	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
	Total	101	5	6	12	4	8	3	5	6	13	9	15	13	2
	Males	88	3	2	4	2	4	1	1	2	5	2	8	4	.....
	Females	63	2	4	8	2	4	2	4	4	8	7	7	9	2

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	Year 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
8.	Total.....	100	9	6	11	5	4	11	8	10	10	14	5	7	.....
	Males.....	52	6	4	2	2	2	6	4	7	2	10	2	5	.....
	Females.....	47	3	2	8	3	2	5	4	3	8	4	3	2	.....
	Unknown.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9.	Total.....	74	2	5	5	6	10	8	7	8	9	5	4	9	1
	Males.....	31	1	2	2	1	2	.....	5	6	2	3	1	6	.....
	Females.....	43	1	3	3	5	8	8	2	2	7	2	3	3	1
	Total.....	63	5	4	7	4	5	4	6	0	3	3	6	7	.....
10.	Males.....	28	2	2	1	3	2	1	4	3	1	1	4	4	.....
	Females.....	34	3	2	6	1	2	3	2	6	2	2	2	3	.....
	Unknown.....	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....
	Total.....	65	4	7	4	1	10	3	6	6	10	1	3	10	.....
11.	Males.....	23	2	2	2	.....	4	2	4	3	10	.....	1	3	.....
	Females.....	39	3	5	3	1	6	1	3	3	.....	1	2	7	.....

[illegible]

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	YEAR 1871.	MONTHS.											
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
19.	Total.....	73	2	4	7	7	8	5	11	1	5	7	4	12
	Males.....	81	.....	1	4	2	4	2	7	.....	3	4	.....	4
	Females.....	42	2	3	3	5	4	3	4	1	2	3	4	8
20.	Total.....	95	6	3	8	11	7	11	9	7	7	9	11	5
	Males.....	44	3	1	4	6	1	5	4	8	1	5	7	3
	Females.....	51	3	2	4	5	6	6	5	4	6	4	4	2
21.	Total.....	87	4	3	6	4	8	4	7	12	4	3	12	13
	Males.....	41	2	1	.....	2	2	1	3	6	3	4	8	1
	Females.....	46	2	2	6	2	6	3	4	6	1	4	4	5
22.	Total.....	121	6	3	10	9	13	9	10	11	13	13	11	13
	Males.....	47	1	1	5	5	2	4	4	4	9	5	3	4
	Females.....	74	5	2	5	4	11	5	6	7	4	8	8	9
23.	Total.....	100	7	6	6	12	8	6	7	13	12	8	6	9
	Males.....	38	4	2	1	4	2	2	4	5	4	5	2	3
	Females.....	62	3	4	5	8	6	4	3	8	8	3	4	6

AGES IN YEARS.

	Total	3	4	5	6	7	8	9	10	11	12	13	14
24. Males	49	2	2	2	2	6	3	5	3	1	2	6	9
Females	44	1	1	1	1	7	3	6	5	4	6	1	5
Total	70	2	5	4	4	4	4	9	6	5	6	8	9
25. Males	85	1	-----	-----	-----	3	4	6	3	3	3	4	1
Females	85	1	5	1	-----	-----	-----	8	3	5	3	4	5
Total	88	5	6	5	15	-----	-----	12	5	5	7	8	7
26. Males	39	4	1	1	5	1	5	6	3	3	2	3	4
Females	49	1	5	4	10	4	10	6	2	2	5	1	5
Total	83	6	4	3	6	5	6	6	12	5	8	7	12
27. Males	39	3	4	2	3	2	3	3	2	3	4	1	3
Females	44	3	-----	-----	-----	1	3	3	3	2	4	6	3
Total	90	8	8	3	9	3	9	10	5	3	10	9	7
28. Males	31	-----	5	2	1	4	1	4	1	1	1	3	5
Females	59	3	3	1	3	6	4	2	9	6	9	4	4
Total	72	4	3	9	4	7	7	7	3	3	3	6	7
29. Males	22	1	-----	-----	-----	1	3	2	2	2	2	2	4
Females	50	3	3	3	1	3	5	5	1	6	4	4	3
Total	98	6	8	5	4	7	5	5	6	16	12	6	9
30. Males	38	3	2	4	3	2	3	2	3	5	3	5	3
Females	55	3	6	1	1	5	2	3	3	3	11	9	6

36.	Total	79	8	7	6	7	2	6	4	12	9	1	15
	Males	38	1	3	3	3	1	6	2	9	3	1	5
	Females	41	2	4	3	4	2	.....	2	4	4	.....	10
37.	Total	88	4	6	5	7	4	12	3	8	7	9	7
	Males	43	3	2	2	3	3	8	.....	4	3	7	1
	Females	40	1	4	3	4	1	4	3	4	4	2	6
38.	Total	60	7	1	3	2	3	6	7	5	0	8	4
	Males	30	2	.....	3	1	2	2	5	3	5	2	3
	Females	30	5	1	.....	1	1	4	2	2	4	6	1
39.	Total	61	4	5	6	3	7	6	.....	9	6	4	3
	Males	27	1	2	4	.....	2	1	.....	7	3	1	1
	Females	34	3	3	2	3	5	5	.....	2	3	3	2
40.	Total	90	7	3	4	6	11	7	6	7	12	6	8
	Males	51	3	.....	4	2	10	2	3	4	6	6	4
	Females	39	4	3	.....	4	1	5	3	3	6	.....	4
41.	Total	52	3	5	1	3	6	7	6	4	.....	4	4
	Males	22	2	2	1	1	2	3	4	1	.....	1	1
	Females	30	1	3	.....	2	4	4	2	3	.....	3	5
42.	Total	71	3	4	11	4	4	4	1	5	8	5	7
	Males	37	2	1	5	1	1	3	.....	3	3	3	6
	Females	34	1	3	6	3	3	1	1	2	5	2	1

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	MONTHS.												Year 1871.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
43.	Total	4	1	2	1	2	3	6	2	1	10	9	3	—
	Males	2	—	2	1	—	2	1	1	—	7	8	2	—
	Females	2	1	—	—	2	1	5	1	1	3	1	1	—
44.	Total	36	6	5	6	1	4	5	1	6	6	3	9	1
	Males	1	3	3	4	—	2	4	—	3	2	2	6	—
	Females	26	3	2	2	1	2	1	1	3	4	1	3	1
45.	Total	70	4	11	3	4	1	6	6	9	9	1	12	1
	Males	46	2	6	3	2	1	5	5	6	5	—	3	1
	Females	24	2	5	—	2	—	1	1	3	4	1	4	—
46.	Total	60	4	5	6	7	4	6	7	3	8	3	5	1
	Males	33	1	5	3	4	3	5	2	—	2	1	4	—
	Females	27	3	—	3	3	1	1	5	3	6	2	1	1
47.	Total	47	4	2	7	4	1	2	4	5	5	2	3	—
	Males	27	2	—	4	2	1	2	3	3	3	1	4	—
	Females	20	2	2	3	2	—	—	1	2	2	1	—	—

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TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	MONTHS.												YEAR 1871.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
55.	Total	5	7	9	8	4	4	3	6	7	7	7	7	1
	Males	3	2	7	3	4	3	2	4	2	7	5	4	—
	Females	2	5	2	5	—	1	1	2	5	—	2	3	1
56.	Total	77	2	3	7	3	4	9	9	5	6	7	16	—
	Males	50	4	1	6	3	2	4	7	2	3	5	11	—
	Females	27	2	2	1	—	2	5	2	3	3	2	5	—
57.	Total	44	3	3	5	5	7	1	4	3	3	3	3	1
	Males	26	1	2	4	2	4	1	2	3	2	2	2	1
	Females	18	2	1	1	3	3	—	2	—	1	1	1	—
58.	Total	55	1	3	2	6	4	2	5	9	9	7	5	—
	Males	23	1	2	2	5	3	—	2	6	4	4	2	—
	Females	20	—	—	—	1	1	2	3	2	5	3	3	—
59.	Total	69	1	5	11	6	1	2	6	10	9	7	7	—
	Males	46	1	2	7	2	1	2	6	8	6	5	5	—
	Females	23	—	3	4	4	—	—	—	2	3	2	2	—

60.	Total.....	70	3	7	4	0	9	2	5	3	10	2	5	-----
	Males.....	39	1	4	2	4	0	2	1	1	6	4	2	-----
	Females.....	81	2	3	2	1	3	-----	2	2	4	5	3	-----
	Total.....	46	3	5	2	2	1	3	3	6	5	4	7	-----
61.	Males.....	27	2	3	-----	1	1	3	2	3	2	5	1	4
	Females.....	19	-----	2	2	1	-----	-----	1	3	3	1	3	3
62.	Total.....	63	3	5	7	5	7	5	4	3	5	6	7	5
	Males.....	39	5	1	2	4	4	3	3	3	3	4	3	1
	Females.....	29	3	4	5	1	3	2	1	-----	2	3	2	-----
	Total.....	71	4	1	6	4	7	2	7	9	6	7	3	9
63.	Males.....	42	1	1	4	2	4	1	5	3	1	6	5	9
	Females.....	29	3	-----	2	2	3	1	2	6	5	1	3	-----
64.	Total.....	74	6	5	6	9	6	4	5	7	9	6	7	4
	Males.....	43	4	1	4	8	4	3	3	6	5	4	4	2
	Females.....	26	2	4	2	1	2	1	2	1	4	2	3	2
	Total.....	88	8	7	7	4	12	6	8	6	13	5	6	11
65.	Males.....	57	8	5	6	4	7	2	-----	2	8	3	5	7
	Females.....	31	-----	2	1	-----	5	4	3	4	5	2	1	4
66.	Total.....	67	1	5	7	6	8	2	2	5	4	11	6	10
	Males.....	33	1	3	4	4	5	2	2	2	3	4	2	6
	Females.....	29	-----	2	3	2	3	-----	-----	3	1	7	4	4

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	Year 1871.	MONTHS.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
67.	Total	68	8	1	4	.....	2	4	8	10	8	9	5	9	.....
	Males	32	1	1	2	.....	1	4	4	3	4	5	2	5	.....
	Females	31	2	.....	2	.....	1	.....	4	7	4	4	3	4	.....
68.	Total	72	8	3	6	6	8	1	8	9	7	6	7	8	.....
	Males	49	4	2	5	5	.....	1	6	7	5	3	4	7	.....
	Females	23	4	1	1	1	3	.....	2	2	2	3	3	1	.....
69.	Total	44	3	3	6	5	5	1	5	2	1	4	5	4	.....
	Males	26	2	2	4	3	4	.....	4	1	.....	2	2	2	.....
	Females	18	1	1	2	2	1	1	1	1	1	2	3	2	.....
70.	Total	69	7	3	6	4	8	5	5	7	7	8	5	9	.....
	Males	39	3	1	2	2	1	5	5	5	5	4	2	4	.....
	Females	30	4	2	4	2	2	.....	.....	2	2	4	3	5	.....
71.	Total	88	5	4	3	4	4	5	9	3	12	18	8	13	.....
	Males	49	4	3	1	3	1	2	5	6	5	5	7	7	.....
	Females	39	1	1	2	1	3	3	4	2	7	3	1	6	.....

72.	Total	80	4	5	4	4	6	6	7	7	11	2	9	9
	Males	57	8	8	3	2	5	6	6	5	8	6	6	4
	Females	23	1	2	1	2	1	.....	1	2	3	3	2	5
73.	Total	72	8	1	8	8	6	3	4	4	18	6	4	12
	Males	36	1	.....	7	3	4	3	2	2	5	2	2	5
	Females	36	2	1	1	5	2	.....	2	2	8	4	2	7
74.	Total	54	3	3	4	2	1	3	5	5	6	4	6	1
	Males	32	3	1	2	1	.....	2	3	7	4	2	2	6
	Females	22	1	2	2	1	1	1	2	1	2	2	4	1
75.	Total	74	5	2	9	9	5	6	2	8	8	6	7	5
	Males	41	2	1	3	5	3	4	1	5	5	7	4	1
	Females	33	3	1	6	4	2	2	1	3	3	1	3	4
76.	Total	66	7	3	4	6	4	4	4	7	5	5	5	4
	Males	41	6	4	.....	4	2	2	3	6	5	6	1	2
	Females	25	1	4	4	2	2	2	1	1	.....	2	4	2
77.	Total	49	.....	5	3	2	3	2	5	6	11	3	2	7
	Males	33	.....	3	2	2	2	1	5	3	7	3	1	4
	Females	16	.....	2	1	.....	1	1	.....	3	4	.....	1	3
78.	Total	57	.....	1	4	5	4	4	8	14	6	3	3	5
	Males	33	.....	.....	3	3	1	2	4	11	8	3	1	2
	Females	24	.....	1	1	2	3	2	4	3	8	.....	2	3

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	MONTHS.												Year 1871.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
79.	Total	85	1	7	4	3	2	5	4	5	4	5	4	—
	Males	18	1	5	3	—	1	3	2	2	2	—	1	—
	Females	17	—	2	1	3	1	2	2	3	3	—	3	—
80.	Total	88	2	9	3	1	2	6	7	7	4	7	4	—
	Males	28	—	9	3	1	—	1	5	8	4	4	4	—
	Females	15	2	—	—	—	2	5	2	1	8	—	—	—
81.	Total	82	1	1	1	3	3	4	5	5	1	—	6	2
	Males	24	1	—	—	3	3	4	5	2	1	—	5	—
	Females	8	1	1	—	—	—	—	—	3	—	—	1	2
82.	Total	40	4	6	5	6	5	2	1	3	2	2	3	—
	Males	18	—	1	1	4	4	—	—	2	1	2	3	—
	Females	22	4	5	4	2	1	2	1	1	1	—	—	—
83.	Total	84	1	3	2	3	2	4	1	6	3	—	4	—
	Males	23	1	4	3	3	3	3	1	3	1	—	3	—
	Females	11	2	1	—	—	—	1	—	3	2	—	1	—

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TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN YEARS.	SEX.	MONTHS.												YEAR 1871.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
91.	Total	9	3	1	1	2	1					1		
	Males	5	2	1	1	1								
	Females	4	1		1	1						1		
92.	Total	7		1			1	1	1	1		2	1	
	Males	5		1			1		1			1	1	
	Females	2						1		1		1		
93.	Total	6	2	1	1		1	1		1				
	Males	3	1					1		1				
	Females	3	1	1			1							
94.	Total	10	1		1	2	2	1		1			2	
	Males	7	1			2	1	1		1			1	
	Females	3		1	1		1						1	
95.	Total	5			1	1	1		2					
	Males	3			1	1								
	Females	2					1		2					

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TABLE VII.—*A Life Table for Females, Constructed upon the basis of the Death-rate in Michigan during the year 1870, as Computed after Equalizing the Female Population Represented by Deaths, and Correcting the Deaths for Omissions because of time before Enumeration; Calculated upon the Assumed Number of 141,731 Females born; Showing, for each age from birth to 110, the Average Years of Life after each age,—the "Expectation of Life," so-called,—and the True Expectation of Life, at all ages, Computed by a method devised by the compiler.**

AGE IN YEARS.	Female Population represented by Deaths in 1870, Equalized. ^b	Deaths of Females in 1870 multiplied by 1.86. ^c	Death-rate. No. of Deaths to 100 Living. ^d	OF 141,731 BORN,		Average years of Life after each age. ^e	True Expectation of Life at each age, in years and 100ths. ^f
				No. living at beginning of each year of age.	No. Dying at each age.		
1...	16,003	2,161.32	13.50	141,731	19,134	44.24	49.52
1...	15,829	757.02	4.78	122,597	5,860	50.07	58.14
2...	15,701	399.90	2.54	116,737	2,965	51.56	59.93
3...	15,491	291.41	1.88	113,772	2,139	51.89	59.91
4...	14,926	202.74	1.35	111,633	1,507	51.87	59.58
5...	14,600	172.98	1.18	110,126	1,299	51.58	59.03
6...	14,248	152.52	1.07	108,827	1,164	51.19	58.80
7...	14,016	104.16	.74	107,663	797	50.73	57.56
8...	13,934	93.00	.66	106,866	705	50.11	56.73
9...	13,801	91.14	.66	106,161	701	49.44	55.88
10...	13,610	61.38	.45	105,460	475	48.76	55.31
11...	13,475	65.10	.48	104,985	504	47.98	54.17
12...	13,327	70.68	.53	104,481	554	47.21	53.81
13...	13,150	83.70	.63	103,927	655	46.46	52.46
14...	12,950	72.54	.56	103,272	578	45.75	51.65
15...	12,672	111.60	.88	102,694	904	45.01	50.81
16...	11,539	89.28	.75	101,790	763	44.40	50.06
17...	11,564	109.74	.94	101,027	950	43.73	49.29

* For methods employed in the construction of this table, see remarks following.

^b Equalized because in the census the age is stated approximately, and more than the true numbers appear at important ages, such as 20, 30, 40, 50, etc.

^c Deaths increased because of evidence that only about 54 per cent. of the deaths were returned.

^d Per cent. of deaths during the year 1870 to population June 1, 1870, or about the middle of the year in which the deaths occurred.

^e So-called "Expectation of Life."

^f For method of obtaining this column see remarks following. It is the Probable Duration of Life,—"Equation of Life," according to Nelson.

TABLE VII.—CONTINUED.—*Life Table for Females.*

AGE IN YEARS.	Female Popula- tion represented by Deaths in 1870, Equalized.	Deaths of Females in 1870 multi- plied by 186.	Death-rate, No. of Deaths to 100 Living.	OF 141,731 BORN,		Average years of Life after each age.	True Expectation of Life at each age, in years and 100ths.
				No. living at begin- ning of each year of age.	No. Dying at each age.		
18...	11,287	98.58	.87	100,077	871	43.14	48.58
19...	11,094	130.20	1.17	99,206	1,161	42.52	47.84
20...	10,900	96.72	.88	98,045	863	42.02	47.16
21...	10,801	91.14	.84	97,182	816	41.88	46.88
22...	10,650	135.78	1.27	96,866	1,224	40.78	45.58
23...	10,525	85.56	.81	95,142	771	40.25	44.89
24...	10,295	115.82	1.12	94,871	1,057	39.57	44.08
25...	10,155	94.86	.93	93,814	868	39.02	43.32
26...	9,956	107.88	1.08	92,446	998	38.38	42.52
27...	9,647	107.88	1.11	91,448	1,015	37.79	41.75
28...	9,243	117.18	1.25	90,433	1,130	37.21	40.98
29...	8,889	79.98	.89	89,303	795	36.67	40.29
30...	8,424	96.72	1.14	88,508	1,009	36.00	39.51
31...	8,109	76.26	.94	87,499	822	35.41	38.78
32...	7,794	143.22	1.83	86,677	1,586	34.74	38.00
33...	7,479	63.24	.84	85,091	715	34.38	37.34
34...	7,215	83.70	1.16	84,376	979	33.66	36.50
35...	7,051	111.60	1.58	83,397	1,318	33.05	35.70
36...	6,948	63.24	.91	82,079	747	32.58	34.99
37...	6,845	78.12	1.14	81,332	927	31.87	34.16
38...	6,700	91.14	1.36	80,405	1,094	31.23	33.38
39...	6,539	68.82	1.05	79,311	883	30.66	32.64
40...	6,275	52.08	.82	78,478	644	29.98	31.88
41...	5,911	48.36	.81	77,884	630	29.22	30.49
42...	5,546	76.26	1.37	77,204	1,058	28.46	30.12
43...	5,181	59.52	1.14	76,146	863	27.84	29.35
44...	4,816	50.22	1.04	75,278	783	27.16	28.53
45...	4,632	52.08	1.12	74,495	834	26.44	27.70
46...	4,424	27.90	.63	73,661	464	25.73	26.88
47...	4,358	50.22	1.15	73,197	842	24.89	25.98
48...	4,292	63.24	1.47	72,355	1,064	24.18	25.15
49...	4,197	43.36	1.15	71,291	820	23.53	24.36

TABLE VII.—CONTINUED.—*Life Table for Females.*

AGE IN YEARS.	Female Population represented by Deaths in 1870, Equalized.	Deaths of Females in 1870 Multiplied by 1.80.	Death-rate. No. of Deaths to 100 Living.	OF 141,731 BORN,		Average years of Life after each age.	True Expectation of Life at each age in years and 100ths.
				No. living at beginning of each year of age.	No. Dying at each age.		
50...	4,025	66.96	1.66	70,471	1,170	22.80	23.53
51...	3,881	35.34	.91	69,301	631	22.17	22.76
52...	3,570	52.08	1.45	68,670	996	21.37	21.89
53...	3,299	43.36	1.48	67,674	1,002	20.68	21.08
54...	2,943	39.06	1.32	66,672	880	19.98	20.26
55...	2,797	43.36	1.72	65,792	1,132	19.24	19.42
56...	2,386	52.08	2.05	64,660	1,326	18.57	18.62
57...	2,476	44.64	1.80	63,834	1,140	17.95	17.85
58...	2,416	29.76	1.23	62,194	765	17.27	17.07
59...	2,356	35.34	1.50	61,429	921	16.48	16.22
60...	2,302	46.50	2.01	60,508	1,216	15.72	15.41
61...	2,216	37.20	1.67	59,292	990	15.04	14.67
62...	2,090	55.80	2.66	58,302	1,551	14.28	13.87
63...	1,964	55.80	2.84	56,751	1,612	13.66	13.15
64...	1,833	78.12	4.25	55,139	2,343	13.04	12.42
65...	1,584	53.94	3.40	52,796	1,795	12.60	11.80
66...	1,421	46.50	3.27	51,001	1,665	12.03	11.12
67...	1,298	52.08	4.01	49,333	1,978	11.42	10.46
68...	1,175	53.94	4.59	47,855	2,174	10.87	9.86
69...	1,052	42.78	4.06	45,181	1,834	10.37	9.26
70...	964	52.08	5.40	43,347	2,341	9.79	8.59
71...	893	46.50	5.17	41,006	2,120	9.32	8.00
72...	832	50.22	6.03	38,886	2,345	8.80	7.44
73...	766	52.08	6.79	36,541	2,481	8.33	6.92
74...	700	57.66	8.23	34,060	2,503	7.90	6.47
75...	600	46.50	7.75	31,257	2,422	7.57	6.11
76...	513	53.94	10.51	28,835	3,031	7.16	5.71
77...	426	40.92	9.60	25,804	2,477	6.94	5.51
78...	339	40.92	12.07	23,327	2,816	6.63	5.20
79...	252	33.48	11.83	20,511	2,426	6.47	5.06
80...	235	27.90	12.31	18,085	2,226	6.27	4.89
81...	217	20.46	12.79	15,859	2,028	6.05	4.72

TABLE VII.—CONTINUED.—*Life Table for Females.*

AGE IN YEARS.	Female Population represented by Deaths in 1870, Equalized.	Deaths of Females in 1870 multiplied by 1.50.	Death-rate, No. of Deaths to 100 Living.	Of 141,731 BORN,		Average years of Life after each age.	True Expectation of Life at each age, in years and 100ths.
				No. living at birth, and of each year of age.	No. Dying at each age.		
82...	200	39.06	13.27	13,881	1,885	5.89	4.57
83...	183	18.60	13.75	11,996	1,649	5.72	4.42
84...	165	27.90	14.23	10,347	1,472	5.55	4.26
85...	112	14.88	14.71	8,875	1,306	5.39	4.13
86...	91	13.02	15.19	7,569	1,150	5.24	4.00
87...	71	20.46	15.67	6,419	1,006	5.09	3.89
88...	51	9.80	16.15	5,413	874	4.94	3.77
89...	31	3.72	16.63	4,589	755	4.79	3.65
90...	27	11.16	17.16	3,784	649	4.65	3.54
91...	23	1.86	17.75	3,135	556	4.51	3.42
92...	18	3.72	18.34	2,579	473	4.37	3.31
93...	14	3.72	18.93	2,106	399	4.24	3.20
94...	10	-----	19.52	1,707	333	4.12	3.09
95...	10	-----	20.11	1,374	276	3.99	2.99
96...	9	-----	20.70	1,098	227	3.87	2.91
97...	8	-----	21.29	871	185	3.75	2.84
98...	7	-----	21.88	686	150	3.63	2.76
99...	7	3.72	22.47	536	120	3.50	2.68
100...	12	9.80	23.06	416	96	3.37	2.61
101...	1	-----	23.65	320	76	3.23	2.54
102...	1	-----	24.24	244	59	3.08	2.49
103...	-----	-----	24.83	185	46	2.90	2.43
104...	-----	-----	25.42	139	35	2.69	2.36
105...	2	-----	26.01	104	27	2.43	2.33
106...	-----	-----	26.60	77	20	2.11	2.16
107...	-----	-----	27.19	57	15	1.67	1.61
108...	1	-----	51.46	42	22	1.09	.95
109...	-----	-----	75.73	20	15	.75	.67
110...	-----	-----	100.00	5	5	.50	.50
Unk.	143	174.84	-----	-----	-----	-----	-----
All ages.	552,562	9,608.15	1.74	6,341,543	141,731	-----	-----

In the last Report the compiler published a "Life Table for Males," based upon the census of 1870 and the death-rate as indicated by the deaths returned by the supervisors for the year 1870. At that time there was no known method of correctly estimating the real death-rate from the number of deaths returned. It was known that many deaths were not reported, but what proportion were omitted was a matter of conjecture. Acting upon the belief that it was better to publish the evidence, so far as it was at hand, in order that deficiencies might be better understood and remedied, the Life Table above referred to was published. After that time the compiler discovered a method whereby an important correction could be made to the deaths returned, and another "Life Table for Males" was constructed from the same material after it had been corrected for omissions in the returns. That table was published in the Introduction to the "Statistics of Michigan, 1870," page xcii.—Table 8.

The "Life Table for Females" in this Report is constructed from material collected at the same time and in the same manner as that employed for the "Life Table for Males," and the material has been corrected upon the same principle as it was for the last table for males, which was published in the general Statistics of the State. This table for females should not therefore be compared with the table for males in the last Report on Vital Statistics, but with Table 8 in the introduction to the "Statistics of Michigan, 1870."

In computing this "Life Table for Females," the female population represented by deaths in 1870 was equalized and the deaths of females at each age during the year 1870 as per registration returns were multiplied by 1.86, that being such a fraction as would increase them in the same proportion as the deaths during the census year by registration returns were increased by the correction to make them as if enumerated in months of occurrence. The number of deaths returned by registration officers for the census year ending June 1st, 1870, was 9,040, and the

number of deaths, after being corrected for omissions because of time before enumeration, is 16,802, as shown by Table 10. The fraction employed in increasing the number of deaths was obtained as follows: $16,802 \div 9,040 = 1.858+$, which we call 1.86. This is the ratio between the number of deaths as it would have been had the enumeration been made in months of occurrence and the number as returned. In constructing this table, it is assumed that the omissions resulting from time elapsing before enumeration were the same for females as for the total of both sexes. The death-rate is computed at each age up to that of 79 by per cent. of deaths as increased, to the population as equalized. The death-rate for ages over 79 being so irregular because of the small number of inhabitants at such ages, it was equalized as follows: The death-rate for the period of age from 79 to 89 inclusive was first computed, then equalized, forming an increasing death-rate from age 78 to age 90 averaging the death-rate for the period. From 90 to 107 inclusive the average death-rate was obtained and placed opposite the medium age; the death-rate for each age to 107 inclusive was then formed by using the average annual increase as a common difference between each two successive ages. Although this death-rate is thus equalized, it averages the same as the death-rate computed. At age 107 we find the death-rate by this method is 27.19 per cent. of the female population. There is one woman returned as living at the age of 108, and during the year 1870 there was no return of a woman having died at that or any older age. The age of the oldest woman heretofore returned as having died in Michigan was 110 years. It is therefore assumed that all women die at or before the age of 110, hence the death-rate at that age will be 100.00 per cent. The death-rate for the ages 108 and 109 is graduated between that at 107 and 110.

By equalizing the death-rate as has been done for all ages over 79, any natural irregularities would be likely to be obliterated; but the result is much nearer the truth than the

exceedingly irregular death-rate necessarily shown among the small number of inhabitants at such older ages, as is proven by the fact that if not equalized it will happen that the only person living at a given age will be found to have died, making the death-rate 100 per cent., while there are several persons living at ages older than that of the one who died. If the death-rate was not equalized, the Life Table must cease at the first age where all living at that age die, thus perhaps leaving out very many who have lived past that age and are still living at older ages.

If we can believe the statements in the U. S. Census returns, there were thirty-three persons aged 100 and over living in Michigan June 1st, 1870. The evidence of the age of these persons is the same as the evidence of the age of most others; but, without doubt, extraordinary evidence should be required, for the reason that the statements are extraordinary. It is therefore possible that this Life Table extends to ages which are to a slight extent fictitious, but it is in accordance with the evidence thus far obtained, and, like all questions of accurate research, is subject to future modification or verification.

The number 141,731 persons born was assumed as the basis of the "Life Table for Males" in the "Statistics of Michigan, 1870," for the reason that this number left just 100,000 living at the age of ten years, and the table could therefore be readily compared with the American Experience Table, which is a standard, for certain purposes, in the insurance laws of this State. This number has been assumed for this table in order to facilitate comparisons with the "Life Table for Males."

Given the first, fifth, and sixth columns in these tables, the last two are computed as follows: The "Average Years of Life after each age" was found *by dividing the aggregate time lived by all after a given age by the number living at that age.* The True Expectation of life was obtained by the following method: *Ascertain the age at which one-half the number living at the given age will have died, and subtract the given age.*

TABLE VIII.—*Exhibiting by Sex, the Number of Children under One Distinguishing the months in which they Died, their age in whether Born in the Year of*

Months in which Births & Deaths Occurred.	Number Born in each Month of Year of Death.				NUMBER OF CHILDREN THAT DIED AGE IN MONTHS.							
	Year.	Totals.	Sex.	Number of each Sex.	-1.	1.	2.	3.	4.	5.	6.	7.
January.....	1871.	168	Males.....	106	32	8	7	5	2	1	1	1
			Females..	62	15	4	1	5	1	1	5	3
February.....		163	Males.....	99	34	8	5	4	5	2	5	5
			Females..	64	22	10	5	3	3	4	4	1
March.....		184	Males.....	95	44	12	8	5	5	6	5	3
			Females..	89	31	5	5	6	5	6	6	1
April.....		167	Males.....	93	38	11	9	7	3	2	2	2
			Females..	74	36	2	6	2	5	1	5	3
May.....		155	Males.....	87	37	6	2	5	4	..	9	3
			Females..	68	29	1	5	3	3	5	1	4
June.....		141	Males.....	78	33	8	5	3	1	5	2	4
			Females..	63	26	6	5	3	1	1	2	1
July.....		144	Males.....	83	37	12	12	12	6	6	14	6
			Females..	61	35	7	5	6	12	5	7	3
August.....		158	Males.....	84	51	13	14	10	9	9	13	9
			Females..	74	43	11	7	9	10	13	8	5
September....		118	Males.....	63	39	17	11	8	10	14	13	11
			Females..	55	32	20	4	10	8	7	11	4
October.....		125	Males.....	76	63	10	4	10	4	5	2	2
			Females..	49	44	15	2	5	5	7	5	3
November.....		93	Males.....	65	54	6	6	5	6	4	2	2
			Females..	28	23	1	2	6	2	3	1	1
December.....		102	Males.....	60	60	11	7	8	7	6	3	3
			Females..	42	42	5	4	6	3	4	5	3
DEATHS BY AGES.	Of those Born in Year of Death.	1871.	Males.....	989	522	114	78	63	47	49	47	27
			Females..	729	375	83	45	52	44	40	37	16
		1,718	Totals ...	1,718	900	197	123	120	91	89	84	43
	All Ages under one year.	1870.	Males.....	....	..	8	12	14	15	11	24	24
			Females..	....	..	4	6	14	14	17	23	16
		478	Totals ...	....	..	12	18	28	29	28	47	40
				Males.....	522	122	90	82	62	60	71	51
				Females..	375	87	51	66	58	57	60	32
				2,196	Totals ...	900	209	141	148	120	117	83

* Excluding 2 males and 2 females, month of death unknown; 3 persons, month

*Bar of Age Returned as having Died in Michigan during the Year 1871;
 months at Death, the months in which they were Born, and
 of Birth or in the Previous Year.**

DEATH BY EACH					Number Born in Each		Year.	DEATHS BY MONTHS.							
1.	2.	3.	4.	5.	Number of each Sex.	Total.		Of those Born in Year of Death.		Of those Born in Previous Year.		All Aged Under one Year.			
1.	2.	3.	4.	5.	Number of each Sex.	Total.	Year.	Sex.	Total.	Sex.	Total.	Sex.	Total.		
4	1	3	1	1	1	1	1870.	82	47	33	59	65	106		
2	1	1	1	1	1	1		15		26		41			
3	1	4	3	1	1	1		42	74	36	65	78	139		
3	3	2	1	1	1	1		82		29		61			
4	4	1	2	2	5	5		64	105	36	74	104	179		
3	3	3	3	3	2	2		41		38		79			
1	6	2	4	3	6	14		65	111	22	47	87	158		
2	6	6	3	3	3	3		46		25		71			
6	2	2	3	1	10	21		54	95	24	45	78	140		
4	4	2	1	1	11	11		41		21		62			
2	2	1	3	1	18	29		55	99	12	28	67	122		
3	8	1	2	1	16	16		44		11		55			
4	7	7	1	3	22	35	1871.	99	176	25	46	124	222		
4	4	4	1	1	13	13		77		21		98			
9	6	13	8	14	14	30		128	234	36	73	164	307		
7	15	8	7	16	16	16		106		37		143			
6	7	5	7	83	65	65		129	233	19	30	148	263		
8	5	2	4	32	32	32		104		11		115			
4	9	2	2	48	89	89		118	204	4	14	117	218		
2	3	5	5	41	41	41		91		10		101			
4	3	2	1	43	89	89		94	141	1	2	95	143		
3	4	1	1	41	41	41		47		1		48			
5	1	1	2	48	96	96		114	199	---	---	114	199		
3	4	4	2	48	48	48		85		---	---	85			
19	18	8	2	---	---	---	1872.	989	---	---	---	---	---		
16	11	5	2	---	---	---		729	---	---	---	---	---		
25	24	8	4	---	---	---		---	1,718	---	---	---	---		
35	35	40	34	248	---	---		---	---	248	---	---	---		
30	38	34	34	230	---	---		---	---	230	---	---	---		
71	73	74	63	---	478	478		---	---	---	478	---	---		
30	48	43	36	---	---	---		---	---	---	---	1,237	---		
46	49	39	36	---	---	---		---	---	---	---	959	---		
96	97	82	73	---	---	---		---	---	---	---	---	2,196		

th of death and sex unknown ; and 18 deaths of persons of unknown sex,—25 in all.

Table VIII. enables us to study more closely than heretofore the deaths of children under one year of age, an important matter for the reason that many of these deaths are believed to result from causes which may eventually be removed or modified. Of the 9,728 deaths returned, 2,196, or 22.57 per cent., are included in this table of deaths of children under one year of age. The table is planned after one in the "Statistics of Michigan, 1870," the principle upon which it is based having been devised by Mr. R. B. Callahan, of the State Department. Although somewhat complicated in its construction, it is believed that its statements may be easily understood, as may also, by means of the following explanations, the methods by which the statements have been reached :

The deaths were all returned as having occurred during the year 1871. The heavy angling line running diagonally through the table separates the deaths of children born within the year 1871 from the deaths of those born in the calendar year previous. The diagonal lines of figures separated from others by light and by dotted angling lines at the left of, and parallel to, the heavy diagonal line, exhibit, by months, those who were born within the year 1871; the first angling line of figures at the left of the heavy line being for the month of January, the second for February, etc. The footings of these lines of figures are written at the left of the central part of the table opposite the months in which the children were born.

The diagonal lines of figures separated by light and by dotted angling lines on the right of, and parallel to, the heavy line, exhibit, by months, those who were born during the calendar year previous to the one in which the deaths occurred, being the year ending December 31, 1870; the first line of figures representing those born in December, the second those born in November, etc. The footings of these figures are found on the right of the center of the table opposite the months in which the children were born.

The perpendicular columns of figures exhibit the deaths at each age in months.

The horizontal lines of figures across the table exhibit the deaths by months.

The footings for columns representing deaths by ages, of those born in each year, and for the total deaths of those aged under one year, are written at the bottom of the table.

The footings for lines of figures representing deaths, by months, of those born in each year, and the total of deaths of those aged under one year, are shown at the right of the table.

exhibiting all the details concerning them included in the returns.

NAME.	Sex.	Color.	Married, Single, or Widowed	Birthplace.	AGE.			Occupation.	PLACE OF DEATH.		DATE OF DEATH.		Cause of Death.
					Yrs	Mos.	Days		Town.	County.	Month.	Day.	
Jane Sebastian...	Female	Red....	Widow...	Hads'n Bay	104	a	a	Not stated.....	Sugar Island...	Chippewa...	January...	2	Old age.
Osquacoquar.....	Female	Red....	Widow...	Unknown...	100	a	a	Not stated.....	Sugar Island...	Chippewa...	July.....	19	Old age.
Phebe Myers.....	Female	White..	Widow...	New York..	103	8	2	Not stated.....	Reading.....	Hillsdale...	August....	31	Old age.
Maria Mell.....	Female	White..	Widow...	Penn.....	100	4	a	Not stated.....	Algoma.....	Kent.....	April.....	26	Old age.
Alsb-ke-bab-gosh..	Male....	Indian..	Married..	Unknown...	100	a	a	Not stated.....	Elbridge.....	Oceana.....	September.	20	Unk'n.
Cather'e McGowan	Female	White..	Widow...	Ireland....	106	a	a	Not stated.....	Port Huron...	St. Clair...	August....	4	Old age.
Sarah Hall.....	Female	White..	Widow...	England...	100	5	a	None	Detroit	Wayne	January....	9	Old age.

^a Not stated.

EXHIBIT H.—Counties and Townships from which no Returns of Deaths for 1871 were received by this Department.

COUNTIES.	TOWNSHIPS.	Popula- tion June 1, 1870.
Total.....		40,589
Alcona.....	Alcona.....	146
Allegan.....	{ Clyde.....	298
	{ Manlius..... <i>a</i>	541
Bay.....	Bangor..... <i>a</i>	8,006
	{ Benzonia..... <i>b</i>	214
	{ Colfax..... <i>b</i>	71
Benzie.....	{ Inland..... <i>b</i>	204
	{ Platte..... <i>b</i>	181
	{ Welden..... <i>b</i>	74
Cass.....	La Grange..... <i>a</i>	1,985
Charlevoix.....	Norwood..... <i>a</i>	192
Clare.....	{ Surrey..... <i>a</i>	<i>c</i>
	{ Winterfield..... <i>a</i>	<i>c</i>
	{ Masonville.....	152
Delta.....	{ Nahma.....	<i>c</i>
	{ Winona.....	<i>c</i>
Grand Traverse.....	Mayfield.....	250
Houghton.....	{ Hancock..... <i>a</i>	2,701
	{ Portage..... <i>a</i>	1,541
	{ Bingham..... <i>a</i>	441
	{ Colfax..... <i>a</i>	91
Huron.....	{ Meade..... <i>a</i>	212
	{ Verona..... <i>a</i>	276
	{ White Rock..... <i>a</i>	270
Ionia.....	Otisco..... <i>a</i>	1,570
Iosco.....	Tawas..... <i>a</i>	1,981

a County Clerk says there is no report from the Supervisor.

b County Clerk says he cannot find any files of returns of deaths from these townships, and hence thinks there were none made; but they may have been stolen from his office with other papers that he knows were stolen.

c Organized since census was taken.

EXHIBIT H.—CONTINUED.

COUNTIES.	TOWNSHIPS.	Popula- tion June 1, 1870.
	{ Lincoln.....a	673
	{ Sherman.....a	134
	Springfield.....a	b
	All townships.....	4,206
	Solon.....	b
	All townships.....	1,715
	{ Morilla.....a	129
	{ Springdale.....a	b
	{ Chandler.....	190
	{ Galilee.....	208
	{ Branch.....	b
	{ Hamlin.....a	124
	{ Pere Marquette.....a	955
	Mecosta.....a	268
	{ Menominee.....a	1,597
	{ Ingallston.....	b
	{ Grout.....a	b
	Jasper.....a	189
	{ Lincoln.....a	822
	{ Mount Hayley.....	b
	{ Porter.....a	83
	{ Ferris.....a	404
	{ Richland.....	88
	Eggleston.....a	233
	{ Beaver.....a	142
	{ Big Prairie.....a	402
	{ Bridgeton.....a	397
	{ Denver.....a	777
	{ Everett.....a	231
	{ Norwich.....	b
	{ Sheridan.....a	457
	{ Newfield.....a	265

Clerk says there is no report from the Supervisor.
ed since census was taken.

EXHIBIT H.—CONTINUED.

COUNTIES.	TOWNSHIPS.	Pop tion 1, 1
Osceola.....	Burdell.....	<i>a</i> <i>l</i>
	Middle Branch.....	<i>a</i>
	Rose Lake.....	<i>a</i> <i>b</i>
Ottawa.....	Allendale.....	<i>a</i>
Saginaw.....	St. Charles.....	<i>1</i>
Sanilac.....	Argyle.....	
	Buel.....	
	Delaware.....	
	Elmer.....	<i>b</i>
	Flynn.....	
	Lamotte.....	
	Moore.....	
	Sanilac.....	<i>1</i>
Schoolcraft.....	Washington.....	
	Watertown.....	
Tuscola.....	All Townships.....	
	Ellington.....	<i>a</i>
	Millington.....	<i>a</i>
Washtenaw.....	Novesta.....	<i>a</i>
	Lyndon.....	
Wayne.....	Monguagon.....	<i>1</i>
Wexford.....	Colfax.....	<i>a</i>
	Henderson.....	<i>a</i> <i>b</i>
	Selma.....	<i>a</i> <i>b</i>

a County Clerk says no returns were made by Supervisor.*b* Organized since census was taken.

IT I.—*Counties and Townships in which it is Reported
that no Deaths Occurred in 1871.*

COUNTIES.	TOWNSHIPS.	Popula- tion June 1, 1870.
		6,283
	Lee	249
	{ Elk Rapids.....	870
	{ Mancelona.....	a
	{ Forest Home.....	a
	Au Gres.....	255
	Duncan.....	831
	{ Emerson.....	590
	{ Washington.....	551
	{ Killbuck.....	a
	{ Lake.....	a
	{ Pinora.....	a
	{ Pleasant Plains.....	a
	{ Arcada.....	418
	{ Branch.....	a
	Forsyth.....	a
	{ Sherman.....	153
	{ Victory.....	314
	All Townships.....	180
	Belvidere.....	54
	{ Algonquin.....	54
	{ Carp Lake.....	25
	{ Albee.....	197
	{ Chesaning?.....	1,507
	Columbia.....	424
	Hanover.....	112

zed since census was taken.

ms wrong to doubt the certified return of a Supervisor,
s difficult to believe that no deaths occurred during the
71 in a township like Chesaning, containing 1,507 in-
ts in 1870.

TABLE X.—Exhibiting, for the State and Counties, by Sex, the Number of Deaths returned as having occurred in Michigan during the Year 1871, and in each Month of the Year; also the Number of Deaths at each period of Age.

STATE. AND COUNTIES.	SEX.	MONTHS.												AGES.													
		Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
State.	Totals....	9728	529	578	781	721	750	626	788	1083	1055	938	798	1029	57	8843	575	284	874	896	738	592	294	664	644	311	218
	Males....	5190	290	283	418	379	379	329	442	572	562	507	444	557	28	2907	269	134	159	385	344	340	370	396	376	181	189
	Females.	4538	238	293	359	342	369	295	342	507	490	431	352	469	29	1717	304	149	215	511	389	252	234	268	268	130	76
	Unknown	35	1	2	4	....	2	2	4	4	8	5	2	8	8	29	2	1	....	....	....	....	....	....	....	....	3
Alcona.	Totals....	5	....	....	....	....	....	....	1	2	....	....	....	1	1	3	....	....	....	....	....	....	....	1	....	....	1
	Males....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
	Females....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Allegan.	Totals....	273	11	12	19	22	21	15	17	88	48	38	26	21	....	125	14	11	6	24	16	18	27	18	14	5	5
	Males....	148	6	5	12	12	13	5	10	17	21	17	16	9	....	69	5	8	4	13	5	7	17	8	8	1	8
	Females.	125	5	7	7	10	8	10	5	16	22	21	10	11	....	54	8	8	2	11	11	11	10	5	6	4	3

Alpine	Males												1
	10	.....	1	1	2	1	1	1	1	8	.....	6	.....
	Females												1
	8	.....	1	.....	1	1	1	1	1	8	.....	5	.....
	Totals												2
	10	1	1	2	1	1	1	2	1	1	1	7	1
Antrim	Males												1
	8	.....	1	.....	1	1	1	2	1	.....	.....	6	.....
	Females												1
	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
	Totals												2
	164	5	10	15	19	16	14	11	27	15	9	12	1
Barry	Males												1
	85	1	7	6	12	6	5	6	12	10	6	6	1
	Females												1
	79	4	8	9	7	10	9	5	15	5	8	6	.....
	Totals												2
	200	7	11	15	14	14	15	18	34	18	24	19	24
Bay	Males												1
	120	4	5	6	9	7	11	9	21	9	14	11	14
	Females												1
	88	8	6	9	5	7	8	9	13	4	10	8	10
	Totals												2
	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
Benzie	Males												2
	18	1	1	2	.....	2	.....	8	1	2	4	1	1
	Females												1
	10	.....	.....	.....	.....	1	.....	2	1	2	1	1	.....
	Totals												3
	274	10	13	19	20	16	9	22	32	45	27	32	2
Berrien	Males												2
	147	6	7	12	11	8	5	13	19	25	11	11	19
	Females												2
	125	4	6	7	9	8	4	9	18	20	14	16	13
	Totals												4
	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....

* For counties and townships not represented by returns of deaths in 1871 see Exhibit H, preceding.

Cheboygan.	Males.	Females.	Age.												Total.	
			7	8	9	10	11	12	13	14	15	16	17	18		
{	Totals...	23	6	2	1	4	2	2	1	8	2	2	1	8	2	5
	Males...	9	2	1	8	1	1	1	1	1	1	1	1	1	1	2
	Females.	14	4	2	1	1	1	2	1	1	1	1	1	1	1	8
{	Totals...	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Males...	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Females.	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
{	Totals...	171	11	14	15	13	15	11	17	15	11	16	15	14	8	2
	Males...	71	6	9	5	5	6	4	8	6	4	7	5	80	6	1
	Females.	100	5	5	10	8	9	14	5	9	9	7	9	10	32	7
{	Totals...	28	1	1	1	2	5	1	1	4	1	2	4	18	2	1
	Males...	11	1	1	1	1	1	1	1	1	1	1	1	9	1	1
	Females.	12	1	1	1	1	1	1	1	1	1	1	1	5	2	1
{	Totals...	210	12	16	18	28	12	15	21	11	26	16	18	15	2	70
	Males...	98	5	8	9	12	4	8	12	6	11	8	9	9	2	80
	Females.	112	7	8	9	16	8	12	9	5	15	8	9	6	1	40

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	MONTHS.												AGES.														
		Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.	
Emmet.....	Totals....	47	8	—	1	3	6	3	6	6	2	5	4	8	—	26	4	3	5	1	1	3	1	1	1	1	—	1
	Males....	30	1	—	1	1	6	2	4	4	1	2	3	5	—	16	3	3	1	1	1	2	—	1	1	1	1	
	Females..	17	2	—	—	2	—	1	2	2	1	3	1	3	—	10	1	—	4	—	—	1	—	—	—	—	—	
Genesee.....	Totals....	207	11	12	16	15	31	11	15	21	17	17	22	19	—	75	14	4	6	21	17	10	18	15	17	8	9	
	Males....	102	9	5	9	7	14	6	5	13	8	8	9	9	—	45	9	—	2	7	5	5	9	8	6	4	2	
	Females..	105	2	7	7	8	17	5	10	8	9	9	13	10	—	30	5	4	4	14	12	5	9	7	11	4	—	
Gr.Traverse.....	Totals....	25	—	1	1	5	2	7	—	1	5	—	—	3	—	11	—	—	—	1	2	2	1	4	1	1	2	
	Males....	13	—	1	—	2	1	4	—	1	3	—	—	1	—	5	—	—	—	1	1	1	—	2	1	1	1	
	Females..	12	—	—	1	3	1	3	—	—	2	—	—	2	—	6	—	—	—	—	1	1	1	2	—	—	1	
Gratiot.....	Totals....	79	1	4	10	6	9	6	5	6	11	8	8	5	—	38	6	2	8	7	1	1	3	5	5	1	—	
	Males....	40	—	1	3	3	5	3	2	5	6	5	3	4	—	23	2	1	1	2	—	1	2	3	4	1	—	
	Females..	39	1	3	7	3	4	3	3	1	5	3	5	1	—	15	4	1	7	5	1	—	1	2	1	—	—	

Hillsdale.....	Totals.....		110	2	4	5	8	9	10	8	7	10	11	14	22	----	01	42	0	10	23	14	19	84	22	28	15	1				
	Males.....		138	6	12	22	7	6	5	13	7	14	17	14	10	----	40	8	8	4	10	5	7	18	13	18	6	1				
	Females ..		158	18	14	28	9	9	3	7	17	16	11	14	12	----	41	14	5	9	19	9	12	16	9	10	9	----				
Houghton.....	Totals.....		110	2	4	5	8	9	10	8	7	10	11	14	22	----	59	2	5	6	10	8	8	6	8	1	2	----				
	Males.....		73	1	3	4	5	6	7	8	4	7	6	10	12	----	40	----	4	4	7	5	5	6	1	1	1	----				
	Females ..		87	1	1	1	3	3	3	----	8	3	5	4	10	----	19	2	1	2	3	3	3	1	2	----	1	----				
Huron.....	Totals.....		106	3	6	8	6	5	6	2	8	5	23	20	9	----	47	4	3	6	6	15	5	4	4	5	----	7	----			
	Males.....		59	1	3	2	6	2	5	----	4	2	13	14	7	----	80	2	----	3	2	7	1	3	1	8	----	7	----			
	Females ..		47	2	3	6	----	3	1	2	4	3	15	6	2	----	17	2	3	3	4	8	4	1	3	2	----	2	----			
Ingham.....	Totals.....		192	12	11	15	14	8	16	17	17	27	21	20	14	----	68	10	5	4	23	16	9	10	17	20	5	5	----			
	Males.....		103	10	4	12	7	4	7	11	7	16	8	10	7	----	35	4	2	2	9	10	6	4	13	18	2	3	----			
	Females ..		88	2	7	3	7	4	9	6	10	10	13	10	7	----	32	6	3	2	14	6	3	6	4	7	8	2	----			
Ionia.....	Totals.....		225	11	15	84	11	20	13	21	20	26	16	7	25	4	76	7	7	13	23	15	21	13	21	11	7	11	----			
	Males.....		127	5	7	19	7	13	8	15	10	13	9	5	14	2	29	4	4	7	14	8	14	7	12	6	7	5	----			
	Females ..		97	6	8	15	4	7	7	6	10	12	7	2	11	2	37	3	3	6	9	7	7	6	9	5	----	5	----			
Iosco.....	Totals.....		23	----	2	2	----	1	2	6	2	5	1	----	2	----	15	----	----	4	2	----	1	----	----	----	1	----	1	----		
	Males.....		14	----	1	1	----	----	1	4	1	4	1	----	1	----	11	----	----	1	1	----	----	----	----	----	----	1	----	1	----	
	Females ..		9	----	1	1	----	1	1	2	1	1	----	----	1	----	4	----	----	8	1	----	1	----	----	----	----	1	----	1	----	1

DEATHS—BY COUNTIES, SEX, MONTHS, AND AGE.

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[illegible]

No returns of deaths.

EXHIBIT H.—CONTINUED.

COUNTIES.	TOWNSHIPS.	Part tion 1,
	(Burdell.....	a
Osceola.....	Middle Branch.....	a
	Rose Lake.....	a
Ottawa.....	Allendale.....	a
Saginaw.....	St. Charles.....	
	Argyle.....	
	Buel.....	
	Delaware.....	
	Elmer.....	
	Flynn.....	
Sanilac.....	Lamotte.....	
	Moore.....	
	Sanilac.....	
	Washington.....	
	Watertown.....	
Schoolcraft.....	All Townships.....	
	(Ellington.....	a
Tuscola.....	Millington.....	a
	Novesta.....	a
Washtenaw.....	Lyndon.....	
Wayne.....	Mongnagon.....	
	(Colfax.....	a
Wexford.....	Henderson.....	a
	Selma.....	a

a County Clerk says no returns were made by Supervisor.

b Organized since census was taken.

EXHIBIT L—*Counties and Townships in which it is Reported that no Deaths Occurred in 1871.*

COUNTIES.	TOWNSHIPS.	Popula- tion June 1, 1870.
Total.....		6,283
Allegan.....	Lee.....	249
	{ Elk Rapids.....	370
Antrim.....	{ Mancelona.....	a
	{ Forest Home.....	a
Bay.....	Au Gres.....	255
Cheboygan.....	Duncan.....	531
Gratiot.....	{ Emerson.....	590
	{ Washington.....	551
	{ Killbuck.....	a
Lake.....	{ Lake.....	a
	{ Pinora.....	a
	{ Pleasant Plains.....	a
Lapeer.....	{ Arcada.....	418
	{ Branch.....	a
Marquette.....	Forsyth.....	a
Mason.....	{ Sherman.....	152
	{ Victory.....	314
Missaukee.....	All Townships.....	130
Montcalm.....	Belvidere.....	54
Ontonagon.....	{ Algonquin.....	54
	{ Carp Lake.....	25
Saginaw.....	{ Albee.....	197
	{ Chesaning?.....	1,507
Tuscola.....	Columbia.....	424
Wexford.....	Hanover.....	112

a Organized since census was taken.

It seems wrong to doubt the certified return of a Supervisor, but it is difficult to believe that no deaths occurred during the year 1871 in a township like Chesaning, containing 1,507 inhabitants in 1870.

[illegible]

For counties and townships not represented by returns in 1871 see Exhibit H, preceding.

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	MONTHS.												AGES.													
		Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
{	Totals....	206	8	17	18	14	16	10	16	26	26	20	14	21	....	85	13	10	7	19	12	15	14	15	7	6	8
	Males....	117	6	10	10	10	11	5	10	15	11	10	9	10	....	49	5	7	4	12	4	9	9	9	4	3	2
	Females..	89	2	7	8	4	5	5	6	11	15	10	5	11	....	36	8	3	3	7	8	6	5	6	3	3	1
{	Totals....	7	....	....	....	....	....	....	....	1	3	1	....	2	....	4	....	....	....	1	1	....	....	....	1	....	....
	Males....	5	....	....	....	....	....	....	....	....	3	1	....	1	....	3	....	....	....	1	1	....	....	....	....	....
	Females..	2	....	....	....	....	....	....	....	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....
{	Totals....	336	10	23	16	24	31	19	34	47	45	42	18	24	8	177	28	9	10	26	21	16	16	18	13	6	6
	Males....	184	4	11	8	15	12	9	20	29	27	21	12	13	8	98	11	6	8	14	14	8	9	5	9	3	4
	Females..	152	6	12	8	9	19	10	14	18	18	21	6	11	....	79	12	3	7	12	7	8	7	8	4	3	2
{	Totals....	73	5	6	4	10	7	3	4	10	2	6	6	10	....	21	6	7	12	9	3	3	3	6	1	3	3
	Males....	25	1	3	2	4	2	....	2	8	1	2	2	8	....	7	3	2	1	....	2	2	2	5	1	1	1
	Females..	48	4	3	2	6	5	3	2	7	1	4	4	2	....	14	3	5	10	7	1	1	1	1	1	1	1

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	MONTHS.												AGES.													
		Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Emmet.	Totals.....	47	8	.....	1	3	6	8	6	6	2	5	4	8	.....	26	4	8	5	1	1	3	1	1	1	.....	1
	Males.....	30	1	.....	1	1	6	2	4	4	1	2	3	5	.....	16	3	8	1	1	1	2	.....	1	1	.....	1
	Females..	17	2	.....	2	.....	1	2	2	2	1	3	1	3	.....	10	1	.....	4	.....	.....	1	1	.....	.....	.....	.....
Genesee.	Totals.....	207	11	12	16	15	31	11	15	21	17	17	22	19	.....	75	14	4	6	21	17	10	18	15	17	8	3
	Males.....	102	9	5	9	7	14	6	5	13	8	8	9	9	.....	45	9	.....	2	7	5	5	9	8	6	4	2
	Females..	105	2	7	7	8	17	5	10	8	9	9	13	10	.....	30	5	4	4	14	12	5	9	7	11	4	.....
Gr.Traverse.	Totals.....	25	.....	1	1	5	2	7	.....	1	5	.....	.....	3	.....	11	.....	.....	.....	1	2	2	1	4	1	1	2
	Males.....	13	.....	1	.....	2	1	4	.....	1	3	.....	.....	1	.....	5	.....	.....	.....	1	1	1	.....	2	1	1	1
	Females..	12	.....	.....	1	3	1	3	.....	.....	2	.....	.....	2	.....	6	.....	.....	.....	.....	1	1	1	2	.....	.....	1
Gratiot.	Totals.....	79	1	4	10	6	9	6	5	6	11	8	8	5	.....	38	6	2	8	7	1	1	3	5	5	1	.....
	Males.....	40	.....	1	3	3	5	3	2	5	6	5	3	4	.....	23	2	1	1	2	.....	1	2	3	4	1	.....
	Females..	39	1	3	7	3	4	3	3	1	5	3	5	1	.....	15	4	1	7	5	1	.....	1	2	1	.....	.....

Hillsdale.....	Totals.....		236	24	26	45	16	15	8	20	24	80	28	22	.....	61	22	8	13	20	14	10	84	92	28	16	1	
	Males.....		133	6	12	22	7	6	5	13	7	14	17	14	10	.....	40	8	8	4	10	5	7	16	18	16	6	1
	Females.....		133	18	14	23	9	9	3	7	17	16	11	14	12	.....	41	14	5	9	10	9	12	16	9	10	9	.....
Houghton.....	Totals.....		110	2	4	5	8	9	10	8	7	10	11	14	22	.....	59	2	5	6	10	6	6	6	3	1	9	.....
	Males.....		73	1	3	4	5	6	7	8	4	7	6	10	12	.....	40	.....	4	4	7	6	6	0	1	1	1	.....
	Females.....		37	1	1	1	3	3	3	.....	3	3	5	4	10	.....	19	2	1	2	0	0	0	1	9	.....	1	.....
Huron.....	Totals.....		106	3	6	8	6	5	6	2	8	5	28	20	9	.....	47	4	0	6	6	15	6	4	4	6	.....	7
	Males.....		59	1	3	2	6	2	5	.....	4	2	13	14	7	.....	30	2	.....	0	2	7	1	0	1	0	.....	7
	Females.....		47	2	3	6	.....	3	1	2	4	3	15	6	2	.....	17	2	0	0	4	8	4	1	0	9	.....	.....
Ingham.....	Totals.....		192	12	11	15	14	8	16	17	17	27	21	20	14	.....	68	10	5	4	20	16	9	10	17	20	6	6
	Males.....		103	10	4	12	7	4	7	11	7	16	8	16	7	.....	35	4	2	2	0	10	6	4	10	10	9	0
	Females.....		88	2	7	3	7	4	9	6	10	10	13	10	7	.....	32	6	0	2	14	6	0	6	4	7	0	9
Ionia.....	Totals.....		225	11	15	34	31	20	15	21	20	26	16	7	25	4	76	7	7	10	29	15	21	15	21	11	7	11
	Males.....		127	5	7	19	7	13	8	15	10	13	9	5	14	2	39	4	4	7	14	8	14	7	10	6	7	6
	Females.....		97	6	8	15	4	7	7	6	10	12	7	2	11	2	37	3	3	6	6	7	7	6	9	5	.....	6
Iosco.....	Totals.....		23	.....	2	2	.....	1	2	6	2	5	1	.....	2	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	Males.....		14	.....	1	1	.....	1	4	1	4	1	.....	1	.....	1	31	.....	.....	.....	1	1	.....	.....	.....	.....	.....	1
	Females.....		9	.....	1	1	.....	1	1	2	1	1	.....	.....	1	.....	4	.....	.....	.....	8	1	.....	.....	.....	.....	.....	.....

	Totals	Males	Females	Unknown	Age												4										
					419	26	29	23	21	40	27	38	1	182	24	9		17	30	33	35	22	20	12			
Kent	Totals	218	10	16	10	17	10	19	34	25	22	15	23	1	95	12	4	5	10	14	23	14	13	18	6	4	
	Males	198	16	13	12	11	22	16	19	21	23	18	12	15	84	12	5	12	50	19	10	9	9	12	6		
	Females	8				1	1	1							8												
	Unknown																										
Keweenaw	Totals																										
	Males																										
	Females																										
	Unknown																										
Lake	Totals	5			1	1	1	1	1						2	1						1			1		
	Males	2																				1			1		
	Females	3			1	1	1	1							2	1											
	Unknown																										
Lapeer	Totals	125	9	8	10	11	8	12	8	12	14	9	9	19	1	46	5	3	5	14	13	8	7	13	9	6	1
	Males	69	4	4	6	7	5	8	8	7	6	5	5	8	1	27	4	1	1	6	7	2	6	6	5	3	1
	Females	55	5	4	4	4	3	4		5	8	4	4	10		18	1	2	4	8	6	1	1	7	4	8	
	Unknown	1												1		1											
Leelanaw	Totals	55	3	3	5	5	8	1	3	4	11	9	4	4		28	10	8	1	4	3	2	1		1	2	
	Males	21	1	1	2	4	1		2	2	4	1	1	2		15		1		2	1		1			1	
	Females	34	2	2	3	1	2	1	1	2	7	8	3	2		13	10	2	1	2	2	2			1	1	
	Unknown																										
Lenawee	Totals	331	19	20	22	29	29	9	32	38	36	25	32	40		106	20	6	13	26	20	19	24	84	36	18	5
	Males	157	9	7	10	15	16	8	15	15	16	12	19	20		61	9		1	10	5	12	10	22	19	5	8
	Females	174	10	13	12	14	13	6	17	23	20	18	13	20		45	11	6	12	16	24	7	14	12	17	8	2
	Unknown																										

* No returns of deaths.

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	Sex.	MONTHS.												AGES.													
		Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Livingston.	Totals....	125	8	9	18	8	11	6	12	15	13	7	12	15	...	84	8	1	6	17	0	7	8	12	15	10	2
	Males....	67	2	4	6	4	7	4	8	12	8	2	5	10	...	20	2	1	2	9	4	1	5	10	7	6	
	Females..	58	1	5	7	4	4	2	9	3	5	5	7	6	...	14	1	...	4	8	6	6	3	2	8	4	2
Mackinac.	Totals....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Males....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Females..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Unknown	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macomb.	Totals....	249	28	25	24	21	18	14	16	22	24	17	14	25	3	82	18	7	8	25	24	18	11	23	19	8	8
	Males....	129	13	11	14	10	6	8	12	9	14	11	6	18	2	41	8	8	4	12	11	12	9	13	9	4	3
	Females..	116	15	13	9	11	10	6	4	13	9	6	7	12	1	37	10	2	4	13	13	6	2	10	10	4	5
	Unknown	4	...	1	1	...	...	...	...	...	1	...	1	...	...	4	...	...	...	...	...	...	...	...	...	...	...
Manistee.	Totals....	85	...	...	8	...	1	8	...	2	8	10	4	4	...	18	1	1	1	5	1	4	3	1	...	...	5
	Males....	21	...	...	...	...	1	8	...	1	3	8	2	3	...	4	...	1	...	4	1	8	3	1	...	...	4
	Females..	14	...	...	8	...	...	...	...	1	5	2	2	1	...	9	1	...	1	1	...	1	...	...	...	...	1

Manitou	{	Totals	3	12	16	10	18	8	6	11	16	10	10	13	29	1	94	8	8	9	8	10	11	6	3	3
		Males	1	7	8	8	9	8	8	5	10	9	8	9	12	1	49	3	2	4	6	9	6	5	1	2
		Females	1	5	8	2	4	5	3	6	6	1	7	4	16	---	45	5	1	5	2	1	5	1	2	---
Marquette	{	Totals	154	12	16	10	18	8	6	11	16	10	10	13	29	1	94	8	8	9	8	10	11	6	3	3
		Males	87	7	8	8	9	8	8	5	10	9	8	9	12	1	49	3	2	4	6	9	6	5	1	2
		Females	67	5	8	2	4	5	3	6	6	1	7	4	16	---	45	5	1	5	2	1	5	1	2	---
Mason	{	Totals	22	1	---	---	---	5	---	2	2	5	8	2	2	---	7	1	---	2	2	2	2	2	1	3
		Males	13	1	---	---	---	8	---	1	1	1	8	2	1	---	6	1	---	1	---	2	1	1	---	1
		Females	9	---	---	---	---	2	---	1	1	4	---	---	1	---	1	---	---	1	2	---	1	---	1	2
Mecosta	{	Totals	46	4	1	1	3	2	1	3	5	5	5	8	5	8	21	8	2	1	4	6	2	1	4	2
		Males	27	3	1	1	2	2	---	2	4	2	8	4	2	1	14	2	2	1	2	2	1	1	1	1
		Females	19	1	---	---	1	---	1	1	1	3	2	4	8	2	7	1	---	---	2	4	1	---	8	1
Menominee	{	Totals	8	---	---	---	---	---	---	---	1	1	---	---	1	---	2	---	---	---	1	---	---	---	---	---
		Males	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---
		Females	2	---	---	---	---	---	---	---	---	1	---	---	---	1	---	2	---	---	---	---	---	---	---	---
Midland	{	Totals	38	---	8	2	8	4	7	5	3	4	3	8	4	---	17	2	1	4	6	3	---	2	1	1
		Males	20	---	1	---	2	3	4	1	2	4	1	2	1	2	8	---	---	4	2	2	---	1	1	1
		Females	18	---	2	2	1	1	3	4	1	---	2	2	2	---	9	2	1	---	4	1	---	1	---	---

* No returns of deaths.

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	Sex.	Year 1871.	MONTHS.												AGES.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Missaukee *	Totals....	202	9	15	19	15	20	10	10	19	23	22	18	21	1	79	11	4	9	18	18	18	12	12	9	4	
	Males....	113	5	7	14	5	10	6	8	12	13	14	11	13	----	39	6	3	6	9	6	11	8	6	8	9	2
	Females..	89	4	8	5	10	10	4	7	7	10	8	7	8	1	40	5	1	3	9	7	7	5	6	4	----	2
Montcalm..	Totals....	121	5	10	12	8	6	7	8	10	16	16	8	14	1	50	10	2	4	14	10	7	5	9	2	4	4
	Males....	60	3	6	4	8	4	8	8	4	7	9	6	7	1	23	4	1	2	6	4	4	4	7	1	2	2
	Females..	61	2	4	8	5	2	4	5	6	9	7	2	7	----	27	6	1	2	8	6	3	1	2	1	2	2
Muskegon..	Totals....	136	5	7	9	13	12	13	12	24	8	10	10	13	----	60	13	6	4	10	8	8	13	6	4	1	8
	Males....	76	3	4	6	6	7	7	6	11	7	5	5	9	----	32	9	3	2	4	5	4	7	4	3	1	2
	Females..	60	2	3	3	7	5	6	6	13	1	5	5	4	----	28	4	3	2	6	3	4	6	2	1	----	1

Newaygo...	Males.																												4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	Females.	11	1	2	1	1	2	2

* No deaths.

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	Year 1871.	MONTHS.												AGES.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Ottawa.	Totals....	206	8	17	18	14	16	10	16	26	26	20	14	21	....	85	13	10	7	19	12	15	14	15	7	6	8
	Males....	117	6	10	10	11	5	10	15	11	10	9	10	....	49	5	7	4	12	4	9	9	9	4	8	2	
	Females....	89	2	7	8	4	5	5	6	11	5	10	5	11	....	36	8	3	3	7	8	6	5	6	3	8	1
Presque Isle.	Totals....	7	....	....	....	....	....	....	....	1	8	1	....	2	....	4	....	....	....	1	1	....	....	....	1	....	....
	Males....	5	....	....	....	....	....	....	....	....	8	1	....	1	....	8	....	....	....	1	1	....	....	....	....	....
	Females....	2	....	....	....	....	....	....	....	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	1	....
Saginaw.	Totals....	330	10	23	16	24	31	19	34	47	45	42	18	24	8	177	28	9	10	26	21	16	16	18	18	6	6
	Males....	184	4	11	8	15	12	9	20	29	27	21	12	13	8	98	11	6	8	14	14	6	9	5	9	8	4
	Females....	152	6	12	8	9	10	10	14	18	18	21	6	11	....	79	12	8	7	12	7	8	7	8	4	8	2
Sanilac.	Totals....	73	5	6	4	10	7	3	4	10	2	6	6	10	....	21	1	6	7	12	9	8	3	2	6	1	1
	Males....	25	1	3	2	4	2	....	2	3	1	2	2	8	....	7	1	2	1	....	2	1	2	2	5	1	1
	Females....	48	4	3	2	6	5	3	2	7	1	4	4	7	....	14	....	4	6	12	7	2	1	....	1	....

[illegible]

No returns of deaths.

TABLE X.—CONTINUED.—Deaths by Counties, by Sex, by Months, and by Age.

COUNTIES.	SEX.	MONTHS.												AGES.													
		Year 1871.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Washenaw	Totals....	297	24	18	23	31	26	23	17	29	23	26	25	22	...	76	16	9	7	31	30	18	13	42	39	10	1
	Males....	172	14	6	16	15	17	15	12	18	17	21	18	8	...	52	6	5	2	9	16	11	13	29	23	4	1
	Females	124	10	12	7	16	9	8	5	10	6	15	12	14	...	23	10	4	4	22	14	7	5	13	16	6	...
	Unknown	1	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Wayne	Totals....	1444	77	70	107	105	98	87	153	194	180	124	124	148	27	712	72	80	45	106	106	93	71	70	66	33	85
	Males....	817	45	37	61	55	42	55	79	104	72	55	57	85	10	395	87	16	24	52	56	62	55	42	34	21	23
	Females	621	32	33	46	50	56	32	74	88	58	38	37	63	14	311	85	14	21	54	50	31	16	28	32	17	12
	Unknown	6	...	...	...	...	...	...	...	2	...	1	...	...	8	6	...	...	...	...	...	...	...	...	...	...	...
Wexford	Totals....	4	...	...	1	2	...	...	...	1	...	...	...	...	...	2	...	...	...	...	2	...	...	...	...	...	...
	Males....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
	Females	3	...	...	1	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...

TABLE XI.—*Deaths in Michigan during the Year 1871, distinguishing the Color by Number and Proportion of each Sex.*

COLOR.	Sex.	Number of Deaths Returned.	Per Cent. of each Sex to Total of Both Sexes.	Males to 100 Females.
All Colors.....	Total	9,728	-----	-----
	Males	5,190	53.54	115.23
	Females	4,508	46.46	100.00
	Unknown	85	-----	-----
White.....	Total	9,406	-----	-----
	Males	5,024	53.53	115.20
	Females	4,361	46.47	100.00
	Unknown	21	-----	-----
Black.....	Total	118	-----	-----
	Males	60	54.05	117.64
	Females	51	45.95	100.00
	Unknown	2	-----	-----
Mulatto.....	Total	15	-----	-----
	Males	9	60.00	150.00
	Females	6	40.00	100.00
Indian.....	Total	114	-----	-----
	Males	65	57.03	132.65
	Females	49	42.95	100.00
Unknown.....	Total	80	-----	-----
	Males	82	47.06	88.88
	Females	36	52.94	100.00
	Unknown	12	-----	-----
Black and Mulatto.....	Total	128	-----	-----
	Males	69	54.76	121.05
	Females	57	45.24	100.00
	Unknown	2	-----	-----

TABLE XII.—*Exhibiting, by Number and by Sex, for the State and Counties, the Color of all persons returned as having died in Michigan during the year ending December 31, 1871.*

STATE AND COUNTIES.	ALL COLORS.			WHITE.			BLACK.			MULATTO.			INDIAN.			UNKNOWN.			REMARKS.
	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	
STATE.....	9,728	5,190	4,538	9,406	5,024	4,381	113	40	51	15	9	6	114	63	49	80	32	36	23 African, 38 Colored, 2 Negro, 2 African, 37 Colored, 61 African, 1 Colored, 51 half-breed, 1 half white, 2 red, 1 white and red, 1 half-breed, 4 red, 2 white and red.
Alcona.....	5	4	1	5	4	1	---	---	---	---	---	---	---	---	---	---	---	---	2 Colored.
Allagau.....	376	143	132	266	137	126	3	5	2	---	---	---	7	3	4	---	---	---	2 Colored.
Alpena.....	13	10	3	12	9	3	1	1	---	---	---	---	---	---	---	---	---	---	2 Colored.
Antrim.....	10	8	2	10	8	2	---	---	---	---	---	---	---	---	---	---	---	---	2 Colored.
Barry.....	164	85	79	164	85	79	---	---	---	---	---	---	---	---	---	---	---	---	2 Colored.
Bay.....	209	120	88	195	110	85	---	---	---	---	---	---	13	10	3	1	1	1	2 Colored.
Benzie.....	18	8	10	17	7	10	1	1	1	---	---	---	---	---	---	---	---	---	2 Colored.
Berrien.....	374	147	125	264	144	120	2	2	3	2	1	1	---	---	---	3	1	2	2 Colored and 1 Negro.
Branch.....	174	102	72	174	102	72	---	---	---	---	---	---	---	---	---	---	---	---	2 Colored and 1 Negro.
Calhoun.....	867	473	394	860	469	391	2	2	2	1	1	---	---	---	---	4	1	2	2 Colored and 1 Negro.
Cass.....	135	69	66	123	63	60	10	2	3	1	---	---	---	---	---	---	---	---	2 Colored and 1 Negro.

Charlevoix.....	16	7	5	16	7	6	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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1 Half-breed.
1 Half-breed and 8 Red.

1 half White.

1 Colored.

8 Colored. 2 Colored.

TABLE XIII.—*Exhibiting, by Number, and by Sex, for the State and Counties, the Nativity of all returned as having died in Michigan during the year ending December 31, 1871.*

STATE AND COUNTIES.	ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
STATE	9,728	5190	4503	35	7750	4074	3655	30	1608	927	681	361	189	167	5
Alcona	5	4	1	—	5	4	1	—	—	—	—	—	—	—	—
Allegan	278	143	132	3	231	117	111	3	36	21	15	11	5	6	—
Alpena	13	10	3	—	7	5	2	—	6	5	1	—	—	—	—
Antrim	10	8	2	—	7	6	1	—	3	2	1	—	—	—	—
Barry	164	85	79	—	153	76	77	—	7	5	2	4	4	—	—
Bay	209	120	68	1	170	94	75	1	36	24	12	3	2	1	—
Benzie	18	8	10	—	16	7	9	—	2	1	1	—	—	—	—
Berrien	274	147	125	2	237	128	107	2	25	13	12	12	6	6	—
Branch	174	102	72	—	167	93	69	—	5	3	2	2	1	1	—
Calhoun	327	172	151	4	283	147	133	3	30	19	11	14	6	7	1
Cass	135	69	66	—	126	66	60	—	6	2	4	3	1	2	—
Charlevoix ..	16	7	9	—	15	6	9	—	1	1	—	—	—	—	—
Cheboygan ..	12	7	5	—	8	4	4	—	4	3	1	—	—	—	—
Chippewa ..	23	9	14	—	15	5	10	—	3	3	—	5	1	4	—
Clare	9	5	4	—	7	4	3	—	1	—	1	1	1	—	—
Clinton	171	71	100	—	149	63	86	—	18	6	12	4	2	2	—
Delta	23	11	12	—	17	9	8	—	6	2	4	—	—	—	—
Eaton	210	98	112	—	176	83	93	—	18	10	8	16	5	11	—
Emmet	47	30	17	—	47	30	17	—	—	—	—	—	—	—	—
Genesee	207	102	105	—	172	82	90	—	26	15	11	9	5	4	—
Gr. Traverse ..	25	13	12	—	18	9	9	—	5	3	2	2	1	1	—
Gratiot	79	40	39	—	74	38	36	—	4	2	2	1	—	1	—
Hillsdale ..	236	133	123	—	259	117	142	—	23	15	8	4	1	3	—
Houghton ..	110	73	37	—	70	45	25	—	40	28	12	—	—	—	—
Huron	106	59	47	—	56	33	23	—	45	21	24	5	5	—	—

TABLE XIII.—CONTINUED.

COUNTIES.	ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.		
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.
Ingham	192	103	88	1	156	83	73	—	21	13	8	15	5	7
Ionia	225	127	97	1	152	103	49	1	27	16	11	16	8	8
Iosco	23	14	9	—	15	10	5	—	5	4	1	—	—	—
Isabella	51	25	26	—	47	23	24	—	2	1	1	2	1	1
Jackson	235	134	101	—	195	112	83	—	32	21	11	8	1	7
Kalamazoo	245	129	117	2	206	109	97	2	27	12	15	13	8	7
Kalkaska	3	2	1	—	2	1	1	—	1	1	—	—	—	—
Kent	419	215	198	3	332	167	165	3	69	41	28	18	10	8
Keweenaw *	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lake	5	2	3	—	4	2	2	—	1	—	1	—	—	—
Lapeer	125	69	55	1	94	54	39	1	26	13	13	5	2	3
Leelanaw	55	21	34	—	45	18	27	—	9	2	7	1	1	—
Lenawee	331	157	174	—	238	132	106	—	42	23	19	6	2	4
Livingston	125	67	58	—	106	57	49	—	18	8	10	6	2	4
Mackinac *	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Macomb	249	129	116	4	194	99	95	4	45	25	20	9	5	4
Manistee	35	21	14	—	21	10	11	—	14	11	3	—	—	—
Manitou	2	1	1	—	1	—	1	—	1	1	—	—	—	—
Marquette	154	67	67	—	113	60	53	—	40	27	13	1	—	1
Mason	22	12	9	—	15	9	6	—	4	2	2	3	2	1
Mecosta	46	27	19	—	33	23	10	—	6	4	2	2	—	2
Menominee	3	1	2	—	3	1	2	—	—	—	—	—	—	—
Midland	33	20	13	—	30	16	14	—	3	4	—	—	—	—
Missaukee †	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monroe	202	113	89	—	163	89	74	—	36	21	15	3	3	—
Montcalm	121	60	61	—	110	56	54	—	8	2	6	3	2	1
Muskegon	136	76	60	—	113	63	50	—	20	12	8	3	1	2
Newaygo	29	17	11	1	22	13	9	—	3	2	1	4	2	1
Oakland	265	139	126	—	215	112	103	—	45	24	21	5	3	2
Oceana	70	38	31	1	51	27	24	1	7	3	4	12	3	4

* No returns of deaths.

† No deaths.

TABLE XIII.—CONTINUED.

COUNTIES.	ALL NATIVITIES.				NATIVE.				FOREIGN.			UNKNOWN.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Ontonagon.....	18	11	7	---	10	7	3	---	8	4	4	---	---	---	---
Osceola.....	26	17	9	---	22	16	6	---	2	1	1	2	---	2	---
Ottawa.....	206	117	89	---	143	88	55	---	58	26	32	5	3	2	---
Presque Isle.	7	5	2	---	5	4	1	---	2	1	1	---	---	---	---
Saginaw.....	336	184	152	---	249	136	113	---	83	47	36	4	1	3	---
Sanilac.....	73	25	48	---	33	11	22	---	38	13	25	2	1	1	---
Schoolcraft*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Shiawassee ..	155	85	70	---	139	74	65	---	18	11	2	3	---	3	---
St. Clair.....	334	177	153	4	230	117	109	4	86	45	41	18	15	3	---
St. Joseph....	175	79	96	---	154	70	84	---	16	7	9	5	2	3	---
Tuscola.....	81	48	33	---	63	38	25	---	15	9	6	3	1	2	---
Van Buren....	232	116	116	---	211	106	105	---	15	9	6	6	1	5	---
Washtenaw ..	297	172	124	1	241	135	105	1	54	37	17	2	---	2	---
Wayne.....	1,444	817	621	6	1009	544	461	4	355	220	135	80	53	25	2
Wexford.....	4	1	3	---	4	1	3	---	---	---	---	---	---	---	---

* No returns of deaths.

CAUSES OF DEATH.

The classification of causes of death is the same as heretofore adopted in this State. It is the same as has been employed in Massachusetts, and in some other States. It is possible that a better one has been proposed, but a change would involve much labor and great difficulty in comparing results with those in past Reports. Table XIV. exhibits the number and per cent. of deaths from all causes and from each class of causes for the year under consideration, and also for the two previous years. It may be remarked that the deaths returned for 1871 bear a closer relation to those for 1869 than did those for 1870, for which year an unusual number and proportion of deaths were returned as having been caused by zymotic diseases. The particular diseases included in this class may be seen by referring to Table XVI., which exhibits all the details of the classification. For the year 1871 a somewhat greater number of deaths than heretofore were returned from Class IV.,—Developmental Diseases.

TABLE XIV.—*Number of Deaths in Michigan from all Causes, and from each Class of Causes, and Per Cent. of Deaths from each Class of Causes to Deaths from all Causes, for each of the Years 1869, 1870, and 1871.*

CAUSES OF DEATH,— CLASSES.	Michigan for the Year 1869.		Michigan for the Year 1870.		Michigan for the Year 1871.	
	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.	Number.	Per Cent. of Total.
All causes.....	9,145	100.00	10,766	100.00	9,728	100.00
I.—Zymotic diseases.....	2,513	27.47	3,429	31.85	2,642	27.16
II.—Constitutional diseases.....	1,734	18.96	2,072	19.24	1,852	19.04
III.—Local diseases.....	2,334	25.52	2,699	25.06	2,619	26.92
IV.—Developmental diseases....	814	8.90	840	7.80	1,002	10.30
V.—Violent deaths.....	463	5.11	495	4.59	589	5.54
Unknown and unclassified.....	1,282	14.01	1,231	11.43	1,074	11.04

EXHIBIT J.—*Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of Death, with a list of Counties included in each Division.*

Upper Peninsula.	North-western.	Northern.	North-eastern.	Western.	Central.	Northern Central.	Bay and Eastern.	South-western.	South-eastern.	Southern Central.
Chippewa.	Benzie. ^d	Antrim.	Alcona. ⁱ	Kent.	Barry.	Clare. ^v	Bay. ^x	Allegan. ^{es}	Macomb.	Bauch.
Delta. ^a	Gr. Traverse. ^e	Charlevoix. ^j	Alpena.	Lake.	Clinton.	Isabella. ^w	Huron. ^{aa}	Berrien.	Monroe.	Calhoun.
Houghton. ^b	Leelanaw. ^f	Cheboygan.	Iosco. ^m	Mason. ^a	Eaton.	Mecosta. ^x	Lapeer.	Cass. ^{ff}	Oakland.	Hillsdale.
Keweenaw. [*]	Manistee. ^g	Emmet.	Presque Isle.	Muskegon. ^o	Genesee.	Midland. ^y	Saginaw. ^{bb}	Van Buren.	Wayne. ^{ss}	Jackson.
Mackinac. [*]	Manitou. ^h	Kalkaska. ^k		Newaygo. ^p	Gratiot.		Sanilac. ^{cc}		Kalamazoo.	
Marquette.	Missaukee.			Oceana. ^q	Ingham.		St. Clair.		Lenawee.	
Menominee. ^c	Wexford. ⁱ			Osceola. ^r	Ionia. ^t		Tuscola. ^{dd}		St. Joseph.	
Ontonagon.				Ottawa. ^s	Livingston.				Washenaw. ^{bb}	
Schoolcraft. [*]					Montcalm. ^u					
					Shiawassee.					

No returns of deaths from the following townships:

^a Masonville, Naima, and Winona. ^b Hancock and Portage. ^c Menominee and Ingallston. ^d Benzonla, Cofax, Inland, Platte, and Welden. (See note to Ex. H.) ^e Mayfield. ^f Solon. ^g Morilla and Springdale. ^h Chandler and Galliee. ⁱ Cofax, Henderson, and Selma. ^j Norwood. ^k Springfield. ^l Alpena. ^m Tawas. ⁿ Branch, Hamlin, and Pere Marquette. ^o Eggleston. ^p Beaver, Big Prairie, Bridgeton, Denver, Everett, Norwich and Sheridan. ^q Newaid. ^r Bardell, Middle Branch, and Rose Lake. ^s Allendale. ^t Otisco. ^u Ferris and Richland. ^v Surrey and Winterfield. ^w Lincoln and Sherman. ^x Groul, Jasper, Lincoln, Mount Hayley, and Porter. ^y Bangor. ^z Bingham, Colfax, Mendie, Verona, and White Rock. ^{aa} St. Charles. ^{bb} Argyle, Buel, Delaware, Elmer, Flynn, Lamotte, Moore, Sanilac, Washington, and Watertown. ^{cc} Ellington, Millington, and Novesta. ^{dd} Clyde and Manlius. ^{ee} La Grange. ^{ff} Monguagon. ^{gg} Lyndon.

^{*} No returns of deaths from the county.

TABLE XV.—*Exhibiting for the State and each of Eleven Geographical Divisions of the State, the Population June 1, 1870; the Number of Deaths, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the year 1871; the Per Cent. of Deaths in 1871 to Population June 1, 1870; also the Per Cent. of Deaths from each Class of Causes to Deaths from all Causes.*

STATE AND GEOGRAPHICAL DIVISIONS. ^b	Population June 1, 1870. ^a	DEATHS 1871.		Per Cent. of all Deaths in '71 to Pop. in '70. ^a	PER CENT. OF DEATHS FROM EACH CLASS OF CAUSES TO DEATHS FROM ALL CAUSES.					
		Number.	Per Cent. of Total.		Class I. Zymotic Dis- eases.	Class II. Constitutional Diseases.	Class III. Local Dis- eases.	Class IV. Developmental Diseases.	Class V. Violent Deaths.	Unknown and Unclassified.
State.....	1,143,443	9,728	100.00	.850	27.15	19.04	26.92	10.30	5.54	11.04
Up. Peninsula..	31,041	331	3.40	1.066	22.96	18.29	16.31	19.64	9.67	18.18
Northwestern..	17,261	189	1.43	.805	35.25	12.95	23.02	8.63	7.19	12.95
Northern	7,349	88	.90	1.197	25.00	11.86	15.91	3.41	8.41	40.91
Northeastern...	5,525	48	.49	.869	37.50	18.75	18.75	8.33	10.42	6.25
Western.....	107,553	913	9.39	.849	29.57	17.42	26.53	8.32	5.04	12.81
North. Central.	11,795	144	1.43	1.221	33.33	19.44	22.92	4.17	6.94	13.19
Central	220,506	1,649	16.95	.748	22.62	22.01	29.53	9.40	4.73	11.70
Bay & Eastern.	139,323	1,264	12.99	.907	30.30	15.03	23.42	9.02	9.65	12.58
Southwestern..	114,416	919	9.45	.803	29.27	18.06	30.03	8.81	3.92	9.90
South. Central.	275,081	2,073	21.31	.753	26.72	20.41	31.45	9.17	4.68	7.57
Southeastern...	213,593	2,160	22.20	1.011	26.85	20.46	24.17	13.70	4.58	10.23

^a Except of counties and townships from which no returns of deaths in 1871 were received, for population of which see Exhibit H.

^b For counties excluded in each division, see Exhibit preceding.

NOTE.—The number of inhabitants deducted from the population of the State for delinquent townships, as shown in Exhibit H, is probably too large, because in some of the delinquent townships it is probable no deaths occurred, but the Supervisors neglected to make an official return stating that fact.

Table XV. will be more valuable after a few years when it can be studied in connection with others for different years. The death-rate is estimated by means of the population June 1, 1870, as was done for the previous year. The population has undoubtedly increased, but the deaths returned were less. In only three divisions does the death-rate appear larger than in the similar table for 1870, those are the Northeastern, Northern Central, and Bay and Eastern. This appearance may be due to rapid increase of population since the census of 1870, the death-rate being computed upon a population smaller than that when the deaths occurred.

II.—1. Diabetic Diseases.....	475	16	11	8	1	6	7	13	4	1	8	14	1	12	4	8
2. Tubercular Diseases.....	1,977	24	1	82	24	1	47	27	46	20	1	2	27	2	48	7
III.—1. Diseases of Nervous System.....	1,016	32	2	12	16	25	16	42	17	2	1	1	16	1	22	23
2. Diseases of Organs of Circulation.....	289	4	6	8	8	8	7	19	6	2	2	6	1	0	12	4
3. Diseases of Respiratory Organs.....	706	21	8	18	11	2	29	18	24	14	1	1	17	2	15	17
4. Diseases of Digestive Organs.....	432	10	1	9	15	21	11	12	7	3	1	5	10	10	9	1
5. Diseases of Urinary Organs.....	124	2	2	1	4	7	10	1	1	1	2	8	3	2	2	2
6. Diseases of Generative Organs.....	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7. Diseases of Organs of Locomotion.....	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8. Diseases of Integumentary System.....	83	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IV.—1. Developmental Diseases of Children.....	466	12	2	6	5	1	8	4	9	6	1	8	5	5	8	8
2. Developmental Diseases of Adults.....	164	3	2	3	1	5	5	2	2	2	2	4	4	4	1	1
3. Developmental Diseases of Old People.....	372	8	5	2	8	9	15	5	4	7	2	1	9	2	2	2
4. Diseases of Nutrition.....																
V.—1. Accident or Negligence.....	244	1	4	2	4	7	8	7	8	6	1	6	4	1	6	2
2. Battle.....																
3. Homicide.....	9				1	1										
4. Suicide.....	40	2		2	2	2					1	1	1	1	2	2
5. Execution.....																
6. Violent Deaths.....	246	4	1	2	6	2	6	1	4	2	1	1	8	18	5	1

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

CAUSES OF DEATH.		COUNTIES.																						
		STATE.	Alcona.	Allagan.	Alpena.	Antrim.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.	Chippewa.	Clare.	Clinton.	Delta.	Kalam.	Genesee.	Gr. Traverse.	Gratios.	
I.—Order 4. Parasitic.....		17	..	1	..	..	..	1	..	..	2	..	..	..	..	..	..	..	..	1	..	..	1
1. Thrush.....		7	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
2. Worms.....		10	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
CLASS II.—Constitutional		1,522	2	40	1	1	48	27	2	53	34	59	24	1	..	2	85	2	57	8	46	7	14	
II.—Order 1. Diathetic.....		475	..	16	11	8	1	6	7	13	4	8	..	14	1	12	4	5
1. Gout.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. Dropsy and Anemia *.....		325	..	11	8	2	..	5	4	8	8	6	..	13	1	5	2	4
3. Cancer.....		106	..	8	8	1	2	5	1	2	..	1	..	4	1	1
4. Noma (Canker).....		85	..	2	1	..	1	2	1	..
5. Morification.....		9	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
II.—Order 2. Tubercular		1,377	2	24	1	1	82	24	1	47	27	46	20	1	..	2	27	2	43	7	34	8	9	
1. Scrofula.....		41	2	1	2	1	1	1	..	8	..	8	1	8
2. Tabes Mesenterica.....		12	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	2	..	..	..

[illegible]

Includes 2 Black Vornit and 21 Blaceno of Bowels.

V.—ORDER 5. Execution.

1. Hanging...

W.—ORDER 6. Violent Deaths, not included above..

Sudden, cause unknown.

Cause not specified b

b Includes 12 from Cold; 1 General Dropsy; 17 Hemorrhage (part not stated); 16 Inflammation; and 21 from "Throat Disease"

14.-1. Diabetic Diseases.....		16	10	8	18	7	8	1	13	10	17	5	15	10	8	1	6	8				
2. Tubercular Diseases.....		44	9	8	27	40	8	15	80	40	64	1	21	8	40	28	86	2	1	11	9	6
III.-1. Diseases of Nervous System.....		80	16	8	23	20	1	22	20	20	48	1	7	5	41	12	20	3	2	10	1	4
2. Diseases of Organs of Circulation.....		7	2	12	9	4	6	4	6	13	13	1	0	1	10	2	6	0	0	0	0	0
3. Diseases of Respiratory Organs.....		20	2	4	16	14	3	20	11	26	26	12	3	23	14	14	1	1	1	1	1	1
4. Diseases of Digestive Organs.....		12	2	2	16	17	2	13	19	1	19	1	7	1	17	5	0	1	1	0	1	0
5. Diseases of Urinary Organs.....		4	3	2	2	1	0	5	8	8	8	1	1	4	1	1	1	1	1	1	1	1
6. Diseases of Generative Organs.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7. Diseases of Organs of Locomotion.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8. Diseases of Integumentary System.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IV.-1. Developmental Diseases of Children.....		8	2	8	13	16	1	3	2	20	20	0	4	10	0	14	0	0	0	0	0	0
2. Developmental Diseases of Adults.....		6	2	4	2	5	1	1	5	6	6	0	0	0	0	4	1	0	0	0	0	0
3. Developmental Diseases of Old People.....		15	3	8	5	10	6	14	14	14	14	6	1	19	6	19	1	1	1	1	1	1
4. Diseases of Nutrition.....		4	7	17	1	4	2	1	3	0	9	1	1	7	1	4	2	0	0	0	0	0
V.-1. Accident or Negligence.....		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Battle.....		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Homicide.....		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4. Suicide.....		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5. Execution.....		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6. Violent Deaths.....		9	7	13	2	5	1	9	8	8	8	0	2	11	2	6	0	0	0	0	0	0

TABLE XVI.—CONTINUED.—*Causes of Death, Classified.*

COUNTIES.																								
CAUSES OF DEATH.																								
	Hilledale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Jabbelin.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.
Sudden Deaths (causes unascertained).....																								
Causes not Specified.....	18	19	10	24	34	2	8	18	25	1	30	--	--	16	6	24	22	--	29	4	1	20	3	4
Class 1.—Zymotic.....	89	25	27	82	85	9	17	56	70	--	125	1	80	27	91	21	--	70	18	--	88	8	19	
I.—Order 1. Miasmatic.....	86	25	26	82	84	9	17	56	79	--	128	1	80	27	88	21	--	66	18	--	86	8	19	
1. Small-pox.....				2	1	--	--	--	11	--	--	--	--	--	--	--	--	4	--	--	7	--	--	
2. Measles.....	2	1	--	--	6	--	--	1	1	--	1	--	--	2	--	1	--	2	--	--	--	--	--	
3. Scarlatina.....	23	1	22	3	7	1	1	9	33	--	25	1	22	29	4	--	--	23	3	--	10	--	4	
4. Diphtheria.....	11	--	--	1	--	--	--	3	4	--	2	--	--	--	3	7	--	4	--	--	1	--	--	
5. Quinsy.....						1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6. Croup.....	7	1	1	2	2	--	--	6	5	--	8	--	--	6	--	4	--	8	1	--	--	--	1	
7. Whooping Cough.....		1	--	2	--	--	--	4	--	--	9	--	--	--	--	1	1	--	--	1	--	2	--	
8. Typhus.....	21	2	1	5	7	1	2	10	18	--	10	--	--	2	--	16	8	--	9	8	--	6	1	
9. Erysipelas.....	3	1	1	8	1	3	--	2	4	--	2	--	--	5	--	3	--	--	--	1	--	--	--	

8. Phthisis (Consumption of Lungs).....	29	8	8	25	57	8/15	32	49	63	1	21	2	40	23	34	2	1	11	2	5
4. Hydrocephalus.....				1	1		8													
CLASS III.—Local Diseases.....	80	23	12	70	73	3	75	61	2	115	3	34	11	106	34	54	9	23	4	12
III.—ORDER 1. Nervous System.....	36	16	3	23	39	1	22	26		48	1	7	5	41	12	26	3	16	1	4
1. Cephalitis.....	6	5		4	8		1			13		2	2	6	1	6		11		2
2. Apoplexy.....	5	1			4		5	3		2				3	2	2				
3. Paralysis.....	10		1	3	3		3	8		8		1		10	3	5				
4. Insanity.....							1	1								2				
5. Chorea.....																				
6. Epilepsy.....	1			1	2					1				2						
7. Tetanus.....																		1		
8. Convulsions.....	4	8	2	4	2		2	3		10		2	1	9	1	7	3	1	1	
9. Brain Diseases.....	10	2		11	11		10	11		14		2	2	11	5	2		3		2
III.—ORDER 2. Organs of Circulation.....	7	2		12	9		4	6		13		1	6	15	2	5	3	3		2
1. Pericarditis.....	2			3	1					3			1	8		3				
2. Aneurism.....																				
3. Heart Diseases.....	5	2		9	8		4	6		10		1	5	12	2	2	3	3		2
III.—ORDER 3. Respiratory Organs.....	20	2	4	16	14		3	26	11	1	26		12	3	23	14	14	1	1	3
1. Epistaxis.....																				

* Total for State includes 210 deaths from Dropsy.

[illegible]

* Total for State includes 2 from Black Vomit and 27 from Disease of Bowels.

[illegible]

* Total for State includes 14 from Abortion.

* Total for State includes 1 from "Skoke Root."

V.—ORDERS 6. Violent Deaths, not included above.....		9	7	12	5	1	9	8	8	11	9	6	8	9
Sudden, cause unknown.....		18	18	10	24	84	9	8	18	25	1	89	10	6
Cause not specified a.....		18	18	10	24	84	9	8	18	25	1	89	10	6

23 a Total for State includes 18 from Cold; 1 General Dropsy; 17 Hemorrhage (part not stated); 10 Inflammation; and 11 from Throat Disease.

III.—1. Diseases of Nervous System.....	5	12	11	18	8	26	4	3	2	26	..	41	6	..	10	20	21	0	28	29	171	1
2. Diseases of Organs of Circulation.....	2	6	1	2	..	13	..	..	..	2	..	6	2	..	0	6	6	4	10	14	85	..
3. Diseases of Respiratory Organs.....	2	14	7	7	1	22	5	1	3	23	1	20	5	..	24	22	19	2	18	24	66	..
4. Diseases of Digestive Organs.....	3	8	6	7	2	19	2	..	..	0	..	11	4	..	7	10	8	6	11	94	80	1
5. Diseases of Urinary Organs.....	..	..	1	1	..	6	0	..	..	2	..	3	2	..	2	4	..	..	7	11	6	..
6. Diseases of Generative Organs.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	1	2	..
7. Diseases of Organs of Locomotion.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Diseases of Integumentary System.....	..	2	..	..	..	2	..	..	1	..	..	..	..	..	..	2	0	1	0	1	0	..
IV.—1. Developmental Diseases of Children.....	2	9	2	2	..	6	2	4	..	5	2	6	..	..	6	18	5	0	0	10	141	..
2. Developmental Diseases of Adults.....	1	8	1	1	1	6	1	..	..	3	..	5	7	..	4	2	0	2	4	4	19	..
3. Developmental Diseases of Old People.....	..	6	4	2	..	0	1	1	1	8	1	10	8	..	10	20	6	2	12	15	67	..
4. Diseases of Nutrition.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V.—1. Accident or Negligence.....	..	4	4	5	..	9	..	..	1	4	..	19	2	..	3	11	0	1	0	6	41	..
2. Battle.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Homicide.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Suicide.....	..	1	..	..	..	1	1	..	..	1	..	3	..	..	2	1	2	1	1	2	8	..
5. Execution.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Violent Deaths.....	4	9	4	4	2	4	2	..	1	6	..	7	8	..	7	16	2	6	3	8	18	..

4. Hydrocephalus.

[illegible]

* Total for State Includes 210 from Dropsy.

10. Fistula	1	1	4	2	1	2	8	1	1	8	6
11. Stomach Diseases.....											
12. Pancreas Diseases.....		1					1				
13. Hepatitis.....											
14. Jaundice.....			2					1	2		1
15. Liver Diseases.....	2	4	1	8	1	8	2	8	1	2	5
16. Spleen Diseases.....											
III.—ORDER 5. Urinary Organs.....											
1. Nephritis.....		1	1	6	8	2	8	2	4	7	11
2. Ischuria.....								2		8	1
3. Nephria (Bright's Disease)						1				2	1
4. Diabëtes		1					1	1	1	2	5
5. Calculus (Gravel, etc.).....			1	1	8	1				1	1
6. Cystitis.....								1		1	
7. Kidney Disease.....					5		2	1	2	1	2
III.—ORDER 6. Generative Organs.....											
1. Ovarian Dropsy.....							1	1			1
2. Diseases of Uterus.....								1			1

Total for State includes 2 from Black VomIt, and 27 from Disease of Bowels.

[illegible]

* Total for State includes 1 from "Smoke Root."

* Total for State includes 14 from Abortion.

V.—Deaths 6. Violent Deaths, not included above.....	4	9	4	4	3	2	1	5	7	8	7	16	2	5	6	18		
Sudden, cause unknown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9
Cause not specified *.....	5	23	12	16	10	30	12	8	7	20	51	10	11	47	17	19	18	137

* Total for State includes 12 from Cold; 1 General Dropsy; 17 Hemorrhage (part not stated); 16 Inflammation; and 91 from "Lung Disease."

CAUSES OF DEATH SPECIFIED.

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[illegible]

a "Stoppage of Bowels."

p. "Stoppage of Intestines."

Females	1	10	8	10	17	10	7	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	14	12	
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TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1871.												YEARS.			CAUSES OF DEATH.	AGES.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.		1869.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Females...	1													1	6	1	Colic, Bilious.....										1		
Males.....															2		Colic, Painters'.....												
Totals.....			1	1				1			2			5	6	7	Colic.....	4					1						
Males.....											2			2	4	2	".....	2											
Females..			1	1				1						3	2	5	".....	2					1						
Totals....	5	3	2	6	10	5	6	14	23	9	6	6		95	88	78	Congestive Chills.....	31	4	5	1	10	9	4	8	8	12	3	
Males....	3			4	7	1	4	9	12	4	3	5		52	37	35	".....	18	2	1	1	5	5	1	6	4	9		
Females..	2	3	2	2	3	4	2	5	11	5	3	1		43	51	43	".....	13	2	4		5	4	3	2	4	3	8	
Males....														8			Constipation.....												
Females..	1										1			2	1	1	".....									1			
Totals....	75	78	110	115	124	108	104	117	114	105	104	132	17	1303	1451	1293	Consumption.....	98	19	24	117	325	248	149	178	105	62	10	23
Males....	35	36	54	59	59	49	56	59	53	48	50	60	8	635	697	568	".....	49	8	13	88	119	116	93	79	67	32	7	14
Females..	40	42	56	56	65	59	48	58	61	57	45	72	9	668	753	660	".....	44	11	11	79	206	132	56	49	38	30	9	9
Unknown																	".....												
Totals....	5	4	6	11	5	8	16	8	8	11	7	15	2	106	117	103	Convulsions.....	92	2		8	2	8		1				1

CAUSES OF DEATH SPECIFIED.

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TABLE XVII.—CONTINUED.—Specified Causes of Death.

SEX.	MONTHS, 1871.												YEARS.			CAUSES OF DEATH.	AGES.													
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1871.	1870.		1869.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.	
Males....	1	1	2	7	9	12	12	10	3	12	5	3	..	76	91	76	Drowning.....	8	16	5	9	8	11	9	8	8	..	..	..	4
Females..	..	..	1	1	1	2	1	2	..	1	..	1	..	10	16	20	"	8	1	..	2	8	1	..	..	..	..	..	..	..
Unknown	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	"	1	..	..	..	..	..	..	..	..	..	..	..	..
Totals....	4	1	2	2	2	5	21	66	43	20	8	3	..	172	373	286	Dysentery.....	130	7	8	1	3	4	4	4	6	4	8	8	..
Males....	2	..	2	2	2	2	13	29	23	9	1	1	..	86	197	136	"	66	4	1	1	1	2	1	1	3	4	1	1	..
Females..	2	1	..	..	..	3	8	37	20	11	2	2	..	86	176	99	"	64	8	2	..	2	2	3	8	8	..	..	..	..
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	"	..	..	..	..	..	..	..	..	..	..	..	..	..
Males....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	Dysentery, Chronic.....	..	..	..	..	..	..	1	..	..	..	..	..	..
Totals....	..	..	2	..	1	..	..	..	1	1	2	1	..	8	25	7	Dyspepsia.....	3	..	..	..	1	1	1	2	..	..	..	..	..
Males....	..	..	1	..	..	..	..	..	1	1	..	..	..	3	15	4	"	2	..	..	..	..	1	..	..	..	..	..	..	..
Females..	..	..	1	..	1	..	..	..	..	..	2	1	..	5	10	3	"	1	..	..	1	..	1	2	..	..	..	..	..	..
Males....	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	Emphysema.....	1	..	..	..	..	..	..	..	..	..	..	..	..
Totals...	1	..	5	3	1	1	4	3	4	..	3	..	..	25	18	12	Epilepsy.....	3	2	..	3	3	4	2	4	2	..	..	..	..
Males....	..	..	4	1	1	..	1	2	1	2	..	2	..	14	9	7	"	2	..	..	3	2	2	..	3	2	..	..	..	..
Females..	1	..	1	..	..	..	..	2	2	2	..	1	..	11	9	5	"	1	3	..	1	2	2	..	1	..	..	..	..	..

	8	5	8	7	7	6	9	8	9	5	9	1	56	68	69	Erysipelas	28	4	5	8	5	6	12	6	6	9	2
Totals....	4	1	2	4	2	2	5	1	8	1	8	5	83	96	40	"	11	1	2	1	3	4	5	4	4	4	4
Males....	4	4	6	3	5	4	4	7	6	4	2	4	53	82	29	"	17	4	4	1	2	3	8	1	6	5	2
Females..													1			Extra Uterine Pregn'cy						1					
Females..													1			Fatty Degeneration											
Males....													1			Feet, Disease of											
Males....													1			Felon											
Females..													1			"Female Pills"											
Females..													1			"Fever, Billious"											
Totals....	1	1	1	2	4	2	6	10	9	8	4	7	55	65	41	Fever, Billious	12	3	6	5	4	2	6	4	7	1	1
Males....													25	34	18	"	3	1	4	3	2		3	1	6	1	
Females..	1	1	1	1	1	2	1	6	4	5	4	3	30	30	23	"	9	2	2	2	2	3	3	1		1	
Unknown														1		"											
Males....																Fever, "Black"											
Males....													1			Fever, Congestive											
Females..														4		"											
Females..														4		"											
Males....														1		Fever, Continued											
Males....																Fever, Gastric											
Totals....	8	3	2	2	4	1	1	7	7	8	5	1	43	66	88	Fever, Intermittent a.	27	1	2	1	4	1	1	3	2	1	
Males....	1	2	1	1	1	1	1	2	3	5	2	1	20	35	20	"	15					3	1		1		
Females..	2	1	1	1	3			5	4	3	3		23	31	18	"	12	1	2	1	1		1	2	2	1	
Females..														1		Fever, Malignant											

* Includes 10 from "Worm Fits" in 1871, and 7 "Worm Fits" in 1870.

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Males	1	1	1	2	3	2 Hip Disease	1	1	1
Females	1			1	2	"			
Males	1	1	1	4	1	Homicide		1	2
Totals	1	1	1	5	3	Hydrocephalus	5		
Males		1		3	1	"	3		
Females	1			2	2	"	2		
Males		1		1		Infanticide	1		
Totals	6	2	9	98	37	Infantile	98		
Males	5	1	5	4	6	"	57		
Females	1	1	4	4	3	"	40		
Unknown						"	1		
Totals	1	1	2	3	2	Inflammation	6	1	1
Males	1	1		1	2	"	6	1	1
Females		2	1	1	1	"			1
Females						Influenza			1
Totals						Injury at Birth			
Males						"			
Females						"			
Totals	2	1	2	1	3	Insanity		2	3
Males	1	1		1	5	"		2	1
Females	1		2		8	"		2	1
Totals	1	3	1	2	10	Intemperance		4	3

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CAUSES OF DEATH SPECIFIED.

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a Includes from "Spotted Fever," 16 for 1871, 8 for 1870, and 5 for 1869.

Females	3	1	1	1	1	6	5	2	3	Paraplegia	8	2	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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"Purpura Hæmorrhagica."

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TABLE XVII.—CONTINUED.—Specified Causes of Death.

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TABLE XVIII.—*Order of Succession of Fifteen Principal Causes of Death, exhibiting for each Specified Cause, by Sex, the Number of Deaths, and Per Cent. of Deaths from each Cause to Deaths from All Causes, for the year ending December 31, 1871.*

ORDER.	SPECIFIED CAUSES.	NUMBER OF DEATHS.			PR. CT. FROM EACH CAUSE TO DEATHS FROM ALL CAUSES.		
		Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption.....	1,808	635	663	13.39	12.24	14.53
2	Scarlet Fever.....	a 696	324	371	7.15	6.24	8.24
3	Pneumonia.....	441	268	173	4.53	5.16	3.84
4	Old Age.....	372	179	193	3.82	3.45	4.29
5	Fever, Typhoid.....	357	192	165	3.67	3.70	3.66
6	Casualty.....	246	216	30	2.53	4.16	.67
7	Heart Disease.....	230	126	104	2.36	2.43	2.31
8	Diarrhea ^b	216	116	100	2.22	2.24	2.22
9	Brain, Inflammation of.....	215	113	102	2.21	2.18	2.27
10	Dropsy.....	210	86	124	2.16	1.66	2.75
11	Bowels, Inflammation of.....	184	100	84	1.89	1.93	1.87
12	Brain Disease.....	173	92	81	1.78	1.77	1.80
13	Dysentery ^b	173	87	86	1.77	1.66	1.91
14	Croup.....	153	83	70	1.57	1.60	1.55
15	Lung Disease.....	152	83	69	1.56	1.60	1.53
Total.....		a 5,121	2,700	2,420	52.64	52.02	53.74
All causes.....		c 9,728	5,190	4,503	100.00	100.00	100.00

a Includes one of unknown sex.

b Includes acute and chronic.

c Includes 35 of unknown sex.

A very large proportion of all the deaths are attributed to a comparatively small number of diseases. More than half of all the deaths returned for the year 1871 resulted from the fifteen causes specified in Table XVIII.

The order of succession, or relative number and proportion of deaths from the several diseases, is not the same as for the year 1870, and yet it is not extremely dissimilar. Consumption is first

as usual, and Scarlet Fever is next, as it was for 1870, although the number of deaths returned from this disease was 156 less in 1871 than in 1870. There can be no doubt but that a very large proportion of the fatal cases of Scarlet Fever might have been postponed until a later period of life, when the chances for living through the disease might have been very much better. Of all diseases, this is believed to be one of the most contagious, and if the views just indicated are correct, very many of the 696 deaths are chargeable to the ignorance, apathy, and carelessness of physicians and householders who fail to comply with the excellent law of this State which provides that notice be given to the Local Board of Health whenever such diseases break out. If this law was generally observed, and every case was promptly isolated upon its first appearance, it would be entirely possible, at least in all rural districts, to protect children from contracting the disease until they were past the age when it proves so exceedingly fatal.

TABLE XIX.—Deaths from Ten Specified Causes during the Year 1871, Exhibiting the Number of each Sex, Total Number in each Month, and at Different Periods of Age.

SEX, MONTHS, AND AGES.		CAUSES OF DEATH.									
		Cancer.	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlatina.	Typhoid Fever.	Whooping Cough.
Sex	Totals.....	105	215	153	193	121	172	67	696	357	65
	Males.....	48	113	83	100	53	86	38	324	192	35
	Females.....	57	102	70	93	68	86	29	371	165	30
	Unknown.....								1		
Months	January.....	4	12	13	2	11	4	5	54	16	1
	February.....	2	18	14	1	10	1	4	55	26	1
	March.....	12	18	16	4	9	2	5	88	25	2
	April.....	6	16	11	4	3	2	3	59	23	2
	May.....	5	12	11	4	4	2	5	52	25	4
	June.....	9	16	6	8	5	5	2	40	21	3
	July.....	8	16	5	41	10	21	4	34	15	13
	August.....	10	26	7	68	8	66	5	51	37	13
	September.....	11	24	10	36	21	43	4	53	50	13
	October.....	14	14	15	14	10	20	4	47	41	8
	November.....	11	20	16	5	15	3	3	69	34	3
	December.....	10	23	29	6	15	3	13	91	32	5
	Unknown.....					2			3	3	1
	Av. Month.....*	8.75	17.92	12.75	16.08	9.92	14.83	5.58	57.75	29.50	5.53
Ages	Under 5.....	1	150	135	133	63	130	51	408	43	60
	5 to 10.....		16	16	7	37	7	4	198	35	8
	10 to 15.....	1	10	1	1	11	3	3	50	33	
	15 to 20.....	2	6		1	5	1		21	46	
	20 to 30.....	2	8		3	1	3	3	8	67	
	30 to 40.....	10	7		2	2	4		4	29	
	40 to 50.....	15	5		4	1	4		2	30	
	50 to 60.....	22	9		1	1	4		1	27	
	60 to 70.....	32	1		2		6			20	
	70 to 80.....	13			2		4			19	
	80 and over.....						3			4	
	Unknown.....	2	8	1	1		3	2	4	4	3

* Excluding deaths in unknown month.

TABLE XX.—Percentage of Deaths during the Year ending December 31, 1871, from each of Ten Specified Causes to Deaths from all Causes; and Percentage of Each Sex, of Deaths in Each Month, and at Different Periods of Life, to Total Deaths from Each Specified Cause.

SEX, MONTHS, AND AGES.	CAUSES OF DEATH.									
	Cancer	Cephalitis.	Croup.	Diarrhea.	Diphtheria.	Dysentery.	Measles.	Scarlatina.	Typhoid Fever.	Whooping Cough.
Percent of all causes	1.08	2.21	1.57	1.98	1.24	1.77	.69	7.15	8.67	.70
Males	45.71	52.56	54.24	51.81	49.80	50.00	56.71	46.55	54.06	47.06
Females	54.29	47.44	45.75	48.19	50.19	50.00	43.28	53.30	46.22	52.94
Unknown								.14		
January	8.81	5.58	8.49	1.04	9.09	2.33	7.46	7.76	4.48	1.47
February	1.90	8.37	9.15	.52	8.26	.58	5.97	7.90	7.28	1.47
March	11.43	8.37	10.45	2.07	7.44	1.16	7.46	12.64	7.00	2.94
April	5.71	7.44	7.18	2.07	2.43	1.16	11.94	8.43	6.44	2.94
May	7.62	5.58	7.18	2.07	1.65	1.16	7.46	7.47	7.00	5.88
June	8.57	7.44	8.92	4.15	4.13	2.91	2.99	5.75	5.88	4.41
July	7.64	7.44	8.26	21.24	8.26	12.21	5.97	4.89	4.20	19.12
August	9.52	12.09	4.57	35.28	6.61	38.37	7.46	7.33	10.36	19.12
September	10.48	11.16	6.53	18.65	17.36	25.00	5.97	7.61	16.53	17.65
October	13.33	6.51	9.80	7.25	8.26	11.62	5.97	6.75	11.48	11.76
November	10.43	9.30	10.45	2.59	12.40	1.74	4.48	9.91	9.52	7.35
December	9.52	10.70	18.95	3.11	12.40	1.74	26.87	13.15	8.96	4.41
Unknown					1.65			.43	.84	1.47
Av. Month	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
Under 5	.95	69.77	88.23	87.05	52.07	75.58	80.60	53.62	12.04	88.24
5 to 10		7.44	10.46	8.63	30.58	4.07	5.97	28.45	9.80	8.82
10 to 15	.95	4.65	.65	.52	9.09	1.74	4.48	7.18	9.24	
15 to 20	1.90	2.79		.52	4.13	.58		8.02	12.59	
20 to 30	1.90	8.72		1.55	.83	1.74	4.48	1.15	18.77	
30 to 40	9.52	3.26		1.04	1.65	2.33		.57	8.12	
40 to 50	14.29	2.33		2.07	.83	2.33		.29	8.40	
50 to 60	20.95	4.19		.52	.83	2.33		.14	7.56	
60 to 70	30.48	.47		1.55		3.49			5.60	
70 to 80	17.14			1.04		2.33			5.33	
80 and over						1.74			1.12	
Unknown	1.90	1.40	.65	.52		1.74	4.48	.57	1.12	2.94

* Excluding deaths in unknown month.

Tables XIX and XX are continued as heretofore. The ten diseases specified therein have also been studied as usual, and taken up in alphabetical order.

Cancer.—One hundred and five deaths were returned as caused by Cancer. As is usually the case, there was an excess of females. The greatest number of deaths occurred in the autumn months, and a very large proportion of the deaths were of persons over forty years of age.

In 52 cases only was the locality of the disease stated. Of the 29 males, 21 had Cancer of the stomach, two of the face, and one each of the eye, lip, throat, lungs, abdomen, and bowels. Of the 23 females, 11 had Cancer of the breast, five of the stomach, two of the face, and one each of the head, mouth, liver, bowels, and uterus.

The writer's views of the nature of Cancer, and the indications for preventing deaths therefrom, were given at some length in the last Report, and will not, therefore, be repeated now.

Cephalitis.—For the year 1869 the proportion of the sexes was 53.98 per cent. males, 46.01 per cent. females. For the year 1870 it was almost precisely the reverse, being 46.35 per cent. males, and 53.64 per cent. females. For the year 1871 there was again an excess of males, the per cent. of the sexes being 52.56 males and 47.44 females.

The greatest number of deaths returned for any one month was 26 in August. For September 24 deaths were returned, and 23 were returned as having occurred in December.

Nearly 70 per cent. of the deaths from this disease were of children under five years of age.

Croup.—In 1871, as is usual with this disease in this State there were more deaths of males than of females, the per cent. being 54.24 males and 45.75 females. This is not far from the proportion of the sexes in deaths from all causes, that per cent. being 53.54 males and 46.46 females.

In 1871, as in 1869 and 1870, the greatest number of deaths returned for any one month was for December, and as in 1870, all deaths but one were of children under ten, and 88. + per cent. under five years of age.

Considerable attention has been given, in the last two Reports, to a study of the relation between deaths from Croup and certain meteorological conditions existing at the same times. The writer has seen no reason for changing his views heretofore expressed, and which are based mainly upon the evidence collected in this State, and which leads to the conclusion that when there is less than the average number of deaths from Croup the atmosphere is warm and moist, while these conditions are not found to prevail when more than an average number of deaths occur from this disease.

As will be seen by Exhibit K, there was only one exception to the above proposition. The subject was treated at such length in the last Report, that only the evidence relative to the deaths in 1871 is here given.

Diphtheria is again studied in close connection with Croup.

Diphtheria.—According to the returns, more males than females died from this disease in 1871, as in 1870, differing in this particular from Croup. From tables XIX. and XX. it appears that Diphtheria is not so much a disease of childhood as is Croup, although about 52 per cent. of all deaths returned from this disease in 1871 were of children under five years of age. Like Croup, this disease seems to be more fatal in the cold months. The order of mortality by months may be seen in Exhibit M, as also the meteorological conditions prevailing in each month. It will be seen that there were only two exceptions to the rule that in months when the greatest number of deaths occurred from this disease the atmosphere was less than usually humid, and two exceptions to the rule that in months when *less* than the average number of deaths occurred the atmosphere was *more* than usually humid. The evidence does not appear to show so close a relation between these atmospheric conditions and deaths from Diphtheria, as between these conditions and deaths from Croup; but it is sufficiently marked in Diphtheria to warrant further investigation.

EXHIBIT K.—Deaths in Michigan from Croup, by Months, during the year 1871, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER, BY NUMBER OF DEATHS FROM CROUP, GREATEST NUMBER FIRST.	DEATHS.		THERMOMETER, FAHRENHEIT: MEAN OF THREE DAILY OBSERVATIONS—AT 7 A. M., 2 P. M., AND 9 P. M.			HUMIDITY OF ATMOSPHERE, ETC. MONTHLY AVERAGES.					
	Number.	Per Cent. of Total.	Range.		Temperature.	Rain-fall in inches.	Relative Humidity of Atmosphere: per cent. of Saturation.	Force or Pressure of Vapor in inches.	Weight, in grains, of Vapor in cubic foot of Air.*	Weight, in Troy ounces, of Vapor inhaled by one person in 24 hrs. ^b	Weight, in Troy ounces, of Passages in 24 hrs. in excess of Vapor inhaled. ^c
			Daily.	From day to day, 2 P. M. to 2 P. M.							
Year 1871.....	153	100.00	16.52°	10.97°	47.93°	27.21	80	.315	8.56	2.23	9.46
December.....	29	18.95	12.18°	15.35°	31.12°	1.76	86	.108	1.89	.83	10.85
March.....	16	10.46	14.42	10.26	38.18	8.01	88	.194	2.29	1.43	10.25
November.....	16	10.46	15.27	13.33	31.95	1.23	86	.160	1.89	1.18	10.50
October.....	15	9.80	18.59	21.90	33.91	1.43	72	.307	8.43	2.18	9.50
February.....	14	9.15	13.71	17.39	25.65	1.73	90	.132	1.58	.99	10.39
January.....	13	8.50	8.95	11.03	34.75	8.95	93	.135	1.63	1.02	10.63

More than an Average No. of Deaths.

Less than an Average No. of Deaths.	11	7.19	12.13	24.53	50.18	2.37	19	1.501	9.000	1.503	9.800
April.....	11	7.19	12.13	24.53	50.18	2.37	19	.405	4.53	2.53	8.85
May.....	11	7.19	18.89	22.09	61.39	1.97	72	.891	4.41	2.76	8.92
September.....	10	6.54	22.43	24.30	53.10	.79	73	.586	6.43	4.02	7.66
August.....	7	4.53	18.55	21.74	71.19	1.42	73	.522	5.77	3.61	8.07
June.....	6	3.92	18.83	21.60	68.21	2.03	74	.579	6.85	3.97	7.71
July.....	5	3.27	18.61	21.43	70.60	8.10	77				
Monthly Average.....	12.75	8.33	16.52*	19.37*	47.33*	2.27	80	.315	3.56	2.23	9.46

* Approximate,—calculated from Force of Vapor and Temperature combined.

^b Calculated for 18 respirations per minute, of 30 cubic inches of air each.

^c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.60 grains, 18 respirations per minute, of 30 cubic inches of air each, making 11.85 ounces Troy of vapor exhaled daily. No correction made for expansion of air after being inhaled.

^d Exception to the proposition that *more* than an average number of deaths from Croup occurred in months in which there was less than the average quantity of vapor inhaled, and *vice versa*. It should be borne in mind that probably a *less* proportion of the deaths were returned for months in early part of the year.

The meteorological data for "Exhibits I, J, and K" were obtained from the Report of the State Board of Agriculture for the year 1871, and are results of observations by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing. The calculations of Range of Temperature, and Weights of Vapor, have been made in this State Department.

EXHIBIT K.—Deaths in Michigan from Croup, by Months, during the year 1871, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER, BY NUMBER OF DEATHS FROM CROUP, GREATEST NUMBER FIRST.	DEATHS.		THERMOMETER, FAHREN- HEIT: MEAN OF THREE DAILY OBSERVATIONS— AT 7 A. M., 2 P. M., AND 9 P. M.				HUMIDITY OF ATMOSPHERE, ETC. MONTHLY AVERAGES.					
	Number.	Per Cent. of Total.	Range.		Temperature.	Rain-fall in inches.	Relative Humidity of Atmosphere: per cent. of Saturation.	Force or Pressure of Vapor in inches.	Weight, in grains, of Vapor in cubic foot of Air. ^a	Weight, in Troy ounces, of Vapor inhaled by one person in 24 hrs. ^b	Weight, in Troy ounces, of Vapor exhaled from Air Passages in 24 hrs. in ex- cess of Vapor inhaled. ^c	
			Daily.	From day to day, 2 P. M. to 2 P. M.								
Year 1871.....	158	100.00	16.52°	19.97°	47.98°	27.21	80	.815	8.56	2.23	9.46	
December.....	29	18.95	12.18°	15.85°	21.12°	1.76	86	.108	1.89	.88	10.85	
March.....	16	10.46	14.42	19.26	88.18	8.91	88	.194	2.29	1.48	10.25	
November.....	16	10.46	15.27	18.28	81.95	1.25	86	.160	1.89	1.18	10.50	
October.....	15	9.80	18.89	21.90	83.91	1.48	72	.307	8.48	2.18	9.50	
February.....	14	9.15	18.71	17.89	25.65	1.73	90	.183	1.58	.99	10.09	
January.....	13	8.00	8.33	11.03	34.75	3.95	92	.185	1.63	1.03	10.66	

More than an Average
No. of Deaths.

EXHIBIT M.—Deaths in Michigan from Diphtheria, by Months, during the Year 1871, and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM DIPHTHERIA.		DEATHS.		Thermometer,—Fahrenheit. Mean of three Daily Observations, 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc. Monthly Averages.				
		Number.	Per Cent. of Total.	RANGE.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in Excess of Vapor Inhaled. ^a
				Daily.	From Day to Day, 2 P. M. TO 2 P. M.						
Year 1871.....	119	100.00	16.52°	19.97°	47.98°	80	.315	3.56	2.23	9.46	
More than an Average No. of Deaths.	September..	21	17.65	22.48°	24.50°	^b 58.10°	78	.391	4.41	^c 2.76	8.92
	November..	15	12.61	15.27	18.23	31.95	86	.160	1.89	1.18	10.50
	December..	15	12.61	12.13	15.35	21.12	86	.108	1.32	.88	10.35
	January....	11	9.24	8.35	11.03	24.75	93	.135	1.63	1.02	10.66
	February..	10	8.40	13.71	17.39	25.65	90	.132	1.58	.99	10.69
	July.....	10	8.40	18.61	21.48	^b 70.60	77	.579	6.35	^e 8.97	7.71
	October....	10	8.40	18.39	21.90	^b 53.91	72	.307	3.48	2.18	9.50
Less than Av. No. of Deaths.	March.....	9	7.56	14.42	19.26	^b 88.18	83	.194	2.28	^c 1.43	10.25
	August....	8	6.72	18.55	21.74	71.19	78	5.86	6.43	4.02	7.66
	June.....	5	4.20	18.83	21.60	63.21	74	5.22	5.77	3.61	8.07
	April.....	3	2.52	19.13	24.83	50.13	74	2.61	3.00	^e 1.88	9.80
	May.....	2	1.68	18.39	22.09	61.39	72	4.05	4.53	2.83	8.85
Average.....		9.92	8.33	16.52°	19.97°	47.93°	80	.315	3.56	2.23	9.46

^a See foot notes to "Exhibit K," page 311.

^b Exceptions to the rule that *more* than an average number of deaths from diphtheria occurred in months in which the mean temperature was *less* than the average, and *vice versa*.

^c Exceptions to the rule that *more* than an average number of deaths from diphtheria occurred in months in which there was *less* than the average quantity of vapor inhaled, and *vice versa*.

Diarrhea.—The deaths returned from this disease during the year 1871 were only about one-half as numerous as during 1870. The proportion of the sexes was about the same, the per cent. of females being slightly more than the average from all causes. The greatest number of deaths in one month was in August, and a large proportion of all the deaths occurred in July, August, and September.

About 87 per cent. of all the deaths were of children under five years of age.

Table XXI. differs from Tables XIX. and XX. by including 23 deaths from Chronic Diarrhea. This table shows that there is a very great difference in the mortality from this disease in different parts of the State. Being based upon one year's experience it should not be taken as conclusive, but it is not very different in this respect from the similar table for 1870. It will be seen that in the Southeastern Division the per cent. of deaths from diarrhea to deaths from all causes is about two times the average throughout the State, while in the Central Divisions of the State the proportion is less than the average.

TABLE XXI.—*Exhibiting for the State and for eleven Geographical Divisions of the State, during the Year 1871, the Number of Deaths returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS.*	DIARRHEA. ACUTE & CHRONIC.		DYSENTERY. ACUTE & CHRONIC.	
	Number of Deaths 1871.	Per Cent. of Deaths from all Causes.	Number of Deaths 1871.	Per Cent. of Deaths from all Causes.
State.....	216	2.22	173	1.79
Upper Peninsula.....	3	.91	6	1.51
Northwestern.....	3	2.16		
Northern.....	3	3.41	1	1.14
Northeastern.....				
Western.....	19	2.08	24	2.63
Northern Central.....	8	2.08	15	10.42
Central.....	9	.55	31	1.89
Bay and Eastern.....	39	3.09	31	2.45
Southwestern.....	12	1.31	29	3.16
Southern Central.....	17	.82	23	1.11
Southeastern.....	108	5.00	13	.60

* For counties included in each Division see page 232.

Dysentery.—Compared with the previous year, a very small number of deaths were returned from Dysentery in 1871. The proportion of deaths was the same for each sex. The greatest number of deaths occurred in August, September, July, and October, in the order named, which was the same order as in the previous year. The per cent. of deaths of children aged under five years was not quite as great from this disease as it was from Diarrhea, while the per cent. of deaths of those aged over fifty was a little larger. Table XXI. includes one death from Chronic Dysentery. It will be seen from this table that the greatest mortality from this disease was not in the same parts of the State as was the greatest mortality from Diarrhea.

Measles.—From this disease, in 1869, more deaths were returned of males than of females; in 1870 the reverse was true; and in 1871 there was again a greater proportion of males. In 1868, 1869, and 1870, the greatest number of deaths were returned for March. In 1871 more deaths were returned for December than for any other month. Even a larger proportion of the deaths than usual were of children under five years of age,—80.60 per cent.

Scarlatina.—The number of deaths returned from this disease was somewhat less than for the previous year, but still the number was very large. There were many more deaths of females than of males. The greatest mortality was in December, and the next greatest for any one month was in March. Of all deaths from this disease, 58.62 per cent. were of children aged under five, and 28.45 per cent. were of those aged between five and ten years.

This disease is generally regarded as highly contagious, and as one which usually attacks a person but once. The primary source of the contagion is not known, although several hypotheses have been advanced. Evidence upon the question as to whether this disease affects any of the lower animals is much needed. Thus far the disease has never been studied and observed with any thoroughness or success. It may be that there is a grand opportunity for some one to make some such discoveries as the transmission or modification of this disease by lower animals, and thus immortalize themselves, as did Jenner by substituting *Vaccinia* for Small-pox. The disease cannot be studied to the best advantage until records of all cases of the disease are obtained, as well as records of deaths. Too much cannot be said of the importance of this subject. The present law of this State requires that all cases of such diseases shall be reported to the Local Board of Health, whose duty it is to protect the people within their jurisdiction from the spread of such diseases. If the people will see that all cases are promptly reported to the Board of Health, and will demand of their

Boards of Health protection from Scarlet Fever as they now demand of them protection from Small-pox, a great saving of human life will result.

Typhoid Fever.—From this disease the number of deaths returned was much less than in the previous year. The proportion of the sexes was the reverse of what it was in the preceding year, there being a larger number of males than of females. The order of mortality by months was: September, October, August, November, December, February, March, May, April, June, January, and July. All ages suffered from this disease, and 67 deaths were of persons aged twenty to thirty years.

Whooping Cough.—Only 68 deaths were returned from Whooping Cough, not quite one-half as many as during 1870. There were more females than males. Nearly all deaths were of children under five years of age, although six were returned as between the ages of five and ten years.

This is another disease where it is probable that many deaths might be prevented by isolation, as the disease is not believed to be so fatal after the first few years of life.

Casualties.—Tabulated under this head are 246 deaths returned as having occurred during the year 1871. This is quite a large increase over the number returned for any previous year. Included in this number are deaths resulting from falling trees, runaway horses, boiler explosions, kerosene oil, etc., etc. Many of the causes specified were quoted in the last Report, and nearly all those then quoted are found again represented in the returns for 1871.

Of the 246 deaths from the various violent causes tabulated under this head, only 30 were females.

Consumption.—This disease is studied more at length because of its importance. For the year 1871, 1,303 deaths, or 13.39 per cent. of all deaths returned, were attributed to this disease. As heretofore pointed out in these reports, deaths from Consumption and from Pneumonia seem to be correlated

in such manner that conditions tending to increase the deaths from one tend to decrease the deaths from the other disease. For the year 1870 the deaths returned from Consumption were increased over those for 1869, while the deaths returned from Pneumonia were decreased. For the year 1871 the reverse is true, there being 148 less deaths returned from Consumption in 1871 than in 1870, and 65 more deaths from Pneumonia. Because of this correlation these two diseases are studied together. In last Report the subject was very thoroughly exhibited, as it applied to per cent. of deaths to population in the several parts of the State. Examination in this particular is omitted in this Report, but material is given in tables and exhibits which will enable one to study the subject in its relations to sex, age, locality, meteorological conditions, etc., and the evidence of such a correlation as is mentioned above continues strong so far as relates to all these conditions, excepting perhaps age, which cannot be studied to the best advantage until we can know the per cent. of deaths to inhabitants at each age from each of these diseases.

EXHIBIT N.—*By Sex, the Number of Deaths in Michigan from Consumption during the year 1871, by Months Equalized to Uniform Length of 30.44 days each; and also the Average Numbers Per Month (Deaths in Unknown Months and of persons of Unknown Sex Excluded).*

		MONTHS OF EQUAL LENGTH.												
	YEAR.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Average.
Totals.....	* 1,286	73	84	108	117	122	110	102	115	116	103	106	130	107.17
Males.....	627	84	89	59	60	58	50	55	58	54	47	60	59	52.25
Females.....	659	89	45	55	57	64	60	47	57	62	56	46	71	54.99

* Deaths from consumption in unknown month excluded.

TABLE XXII.—Correlation of Consumption and Pneumonia. Deaths from Consumption and Pneumonia in Michigan during the Year 1871, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.

MONTHS.	CONSUMPTION.										PNEUMONIA.					
	NUMBER.			PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.			NUMBER.				PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.					
	Males.	Females.	Total.	Per Cent. of Deaths in Each Month to Total for Year. ^a	Excess.		Males.	Females.	Total.	Per Cent. of Deaths in Each Month to Total for Year. ^a	Males.	Females.				
					Males.	Females.										
													Males.	Females.		
685	668	1,353	48.73	51.27	2.54	208	173	441	60.77			39.23	21.54
Year 1871.....	b 35	b 40	b 75	5.83	46.67	53.33	c	6.66	b 26	b 15	b 41	9.32	63.41	36.59	26.82	c
January.....	b 36	b 42	b 78	6.07	43.15	53.85	c	7.70	b 32	b 19	b 50	11.86	64.00	36.00	28.00	c
February.....	54	56	110	8.35	49.09	50.91	c	1.82	37	27	64	14.54	57.81	42.19	15.62	c
March.....	59	56	115	8.94	51.30	48.70	2.60	.....	24	17	41	9.32	58.54	41.46	17.08	.....
April.....	b 59	b 65	b 124	9.64	47.58	52.42	c	4.84	b 17	b 10	b 27	6.14	62.96	37.04	25.92	c
May.....	49	b 59	b 108	8.40	45.37	54.63	c	9.26	13	b 5	b 18	4.09	72.22	27.78	44.44	c
June.....																

^a Deaths in unknown month excluded.

^b Less than the average number of deaths from consumption, and more than the average from pneumonia, or vice versa.

^c Nine out of twelve months in which there was an excess of deaths of one sex from consumption, and of the opposite sex from pneumonia.

TABLE XXII.—CONTINUED.—*Correlation of Consumption and Pneumonia.*

MONTHS.	CONSUMPTION.						PNEUMONIA.									
	NUMBER.			PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.			NUMBER.			PER CENT. OF EACH SEX TO TOTAL OF BOTH SEXES.						
	Males.	Females.	Total.	Per Cent. of Deaths in each Month to Total for Year. ^a	Excess.		Males.	Females.	Total.	Per Cent. of Deaths in each Month to Total for Year. ^a	Excess.					
					Males.	Females.					Males.	Females.				
July.....	56	43	104	8.09	53.55	46.15	7.70	c	9	17	3.86	47.06	52.94	c	5.88	
August.....	59	53	117	9.10	50.42	49.57	.55	.....	b 12	b 7	4.32	63.16	36.84	26.32	.....
September.....	53	61	114	8.86	46.49	53.51	c	7.02	25	b 19	8.64	65.79	34.21	31.63	c	
October.....	48	57	105	8.16	45.71	54.29	c	8.58	18	b 10	28	6.86	64.29	35.71	23.55	c
November.....	50	45	104	8.09	56.73	43.27	13.46	.....	b 13	b 16	34	7.73	52.94	47.06	5.88	.....
December.....	60	72	132	10.26	45.45	54.55	*	9.10	37	26	63	14.32	58.73	41.27	17.46	c
Unknown.....	8	9	17	.....	47.06	52.94	.....	5.88	1	.....	1	.....	100.00	.....	100.00	.....
Average.....	52.25	54.02	107.17	8.33	48.75	51.25	.....	2.50	22.25	14.42	36.67	8.83	60.63	39.37	21.36	.....

^a Deaths in unknown month excluded.^b Less than the average number of deaths from consumption, and more than the average from pneumonia, or *vice versa*.^c Nine out of twelve months in which there was an excess of deaths of one sex from consumption, and of the opposite sex from pneumonia.

EXHIBIT O.—Deaths from Consumption in Michigan during the Year 1871, and some Meteorological Conditions Existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM CONSUMPTION.		DEATHS.		Thermometer — Fahrenheit. Mean of 8 Daily Observations, 7 A. M., 2 P. M., and 9 P. M.		Humidity of Atmosphere, etc. Monthly Averages.					
		Number.	Per Cent. of Total.	Range.		Temperature.	Relative Humidity, or Per Cent. of Saturation.	Force or Pressure of Vapor, in Inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one Person in 24 hours. ^a	Weight, in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours, in Excess of Vapor Inhaled. ^a
				Daily.	From Day to Day, 2 P. M. to 2 P. M.						
Year 1871.....		1,286	100.00	16.52 ^a	19.97 ^a	47.93 ^a	80	.315	3.56	2.23	9.46
More than an Average Number of Deaths.	December..	132	10.26	12.18 ^a	15.35 ^a	^b 21.12 ^a	86	.108	1.32	^c .88	10.85
	May.....	124	9.64	18.39	22.09	61.39	72	.405	4.53	2.83	8.85
	August.....	117	9.10	18.55	21.74	71.19	73	.586	6.43	4.02	7.66
	April.....	115	8.94	19.18	24.83	50.13	74	.261	3.00	^c 1.68	9.30
	September..	114	8.86	22.43	24.80	58.10	78	.391	4.41	2.76	8.92
	March.....	110	8.55	14.42	19.26	^b 33.18	83	.194	2.28	^c 1.43	10.25
Less than an Average No. of Deaths.	June.....	108	8.40	18.83	21.60	^b 63.21	74	.522	5.77	3.61	8.07
	October....	105	8.16	18.89	21.90	^b 53.91	72	.307	3.48	2.18	9.50
	July.....	104	8.09	18.61	21.48	^b 70.60	77	.579	6.35	^c 3.97	7.71
	November..	104	8.09	15.27	18.23	31.95	86	.160	1.89	1.18	10.50
	February..	78	6.07	13.71	17.39	25.65	90	.132	1.58	.99	10.69
	January....	75	5.88	8.85	11.03	24.75	93	.135	1.63	1.02	10.66
Average Month..		107.17	8.33	16.52 ^a	19.97 ^a	47.93 ^a	80	.315	3.56	2.23	9.46

^a See foot-notes to "Exhibit K," page 311.

^b Exceptions to the rule that the temperature was higher than the average in months when *more* than the average number of deaths from consumption occurred, and *vice versa*.

^c Exceptions to the rule that *more* than an average amount of vapor was inhaled in months in which there was *more* than an average number of deaths from consumption, and *less* than the average amount in months in which *less* than the average number of deaths occurred.

EXHIBIT P.—Deaths from Pneumonia in Michigan during the Year 1871 and some Meteorological Conditions existing at the same time.

MONTHS IN ORDER BY NUMBER OF DEATHS FROM PNEUMONIA.			DEATHS.		Thermometer—Fahrenheit. Mean of 3 Daily Observations, 7 A. M., 2 P. M., and 9 P. M.			Humidity of Atmosphere, etc. Monthly averages.					
			Number.	Per Cent. of Total.	RANGE.		Temperature.	Relative Humidity or Per Cent. of Saturation.	Force or Pressure of Vapor in inches.	Weight, in Grains, of Vapor in Cubic Foot of Air. ^a	Weight, in Ounces, Troy, of Vapor Inhaled by one person in 24 hours. ^a	Weight in Ounces, Troy, of Vapor Exhaled from Air Passages in 24 hours in excess of Vapor Inhaled. ^a	
					Daily.	From Day to Day, 2 P. M. to 2 P. M.							
Year 1871.....	440	100.00	16.52°	19.97°	47.98°	80	.815	3.56	2.23	9.44			
More than an Average No. of Deaths.	March	64	14.54	14.42°	19.26°	83	.194	2.28	1.43	10.28			
	December ..	63	14.32	12.13	15.35	86	.109	1.32	.83	10.55			
	February ..	50	11.35	13.71	17.39	90	.132	1.58	.99	10.09			
	January.....	41	9.32	8.35	11.03	93	.135	1.62	1.02	10.64			
	April	41	9.32	10.13	24.83	^b 50.13	74	.261	3.00	1.88	9.80		
	September..	38	8.64	22.43	24.80	^b 53.10	78	.391	4.41	^c 2.76	8.93		
Less than an Average No. of Deaths.	November..	34	7.73	15.27	18.23	^b 31.95	86	.160	1.89	^c 1.18	10.50		
	October.....	28	6.36	18.39	21.90	59.91	72	.307	3.48	^c 2.18	9.50		
	May	27	6.14	18.39	22.09	61.39	72	.405	4.53	2.89	8.85		
	August	19	4.32	18.55	21.74	71.19	78	.586	6.43	4.02	7.66		
	June.....	18	4.09	18.83	21.60	68.21	74	.322	5.77	3.61	8.07		
	July.....	17	3.86	18.61	21.48	70.60	77	.579	6.35	3.97	7.71		
Average Month..	36.67	8.33	16.52°	19.97°	47.98°	80	.815	3.56	2.23	9.44			

^a See foot-notes to "Exhibit K," page 311.

^b Exceptions to the rule that the temperature was greater than the average in months in which less than the average number of deaths from Pneumonia occurred, and vice versa.

^c Exceptions to rule that more than an average amount of vapor was inhaled in months in which there was less than an average number of deaths from Pneumonia, and vice versa.

TABLE XXIII.—Correlation of Consumption and Pneumonia.—Exhibiting the Number and Per Cent. of Deaths of each Sex, the difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption and Pneumonia in Michigan during the Year 1871.

AGE.	CONSUMPTION.						PNEUMONIA.					
	NUMBER.			PERCENTAGE OF THE SEXES. (UNKNOWN SEX EXCLUDED.)			NUMBER.			PERCENTAGE OF THE SEXES.		
	Males.	Females.	Total.	Per Cent. of Deaths at all Ages. ^a	EXCESS.		Males.	Females.	Total.	Per Cent. of Deaths at all Ages. ^a	EXCESS.	
					Males.	Females.					Males.	Females.
All Ages.....	635	663	1,303	.....	48.73	51.27	203	173	441	.....	60.77	39.23
Under 5.....	49	44	93	7.27	52.60	47.31	103	86	189	43.65	54.50	45.50
5 to 10.....	8	11	19	1.48	42.11	57.89	9	6	15	3.43	60.00	40.00
10 to 15.....	13	11	24	1.88	51.17	48.83	8	6	9	2.08	33.33	66.67
15 to 20.....	b 33	b 79	b 117	b 9.14	32.48	67.52	b 5	b 4	b 9	b 2.03	55.56	44.44
20 to 30.....	119	206	325	b 25.30	36.62	63.38	17	12	29	b 6.70	35.63	41.33

^a Deaths at unknown ages excluded.

^b More than an average number and per cent. of deaths from Consumption, and less than an average number and per cent. of deaths from Pneumonia, and vice versa.

^c More than an average proportion of males from Consumption, and less than an average proportion of males from Pneumonia, and vice versa.

TABLE XXIII.—CONTINUED.—Correlation of Consumption and Pneumonia.

AGE.	CONSUMPTION.						PNEUMONIA.					
	NUMBER.			PERCENTAGE OF THE SEXES. (UNKNOWN SEX EXCLUDED.)			NUMBER.			PERCENTAGE OF THE SEXES.		
	Males.	Females.	Total.	Per Cent. of Deaths at each Age, ^a	EXCESS.		Males.	Females.	Total.	Per Cent. of Deaths at each Age, ^a	EXCESS.	
					Males.	Females.					Males.	Females.
80 to 40.....	116	b 182	248	b 19.88	46.77	88.23	c	6.46	20	b 6	76.92	28.08
40 to 50.....	98	56	149	b 11.64	62.42	87.58	24.84	a	21	14	60.00	40.00
50 to 60.....	79	49	128	10.00	61.72	88.28	23.44	.....	32	8	80.00	20.00
60 to 70.....	d 67	38	105	b 8.20	68.80	86.19	27.61	.....	d 84	17	66.67	33.33
70 to 80.....	82	80	62	4.84	51.61	48.89	8.22	.....	15	6	71.43	28.57
80 and over.....	7	8	10	.78	70.00	80.00	40.00	.....	7	2	77.78	22.22
Unknown.....	14	9	23	1.80	60.87	89.13	21.74	e	2	6	25.00	75.00
Average c.....	84.50	86.61	71.11	5.55	48.62	51.48	.....	2.96	14.78	0.98	61.48	38.57

^a Deaths at unknown ages excluded.^b More than an average number and per cent. of deaths from Consumption, and less than an average number and per cent. of deaths from Pneumonia, and vice versa.^c Of 15 periods of 5 years each, unknown ages excluded.^d Less than an average number of deaths of males from Consumption, and more than an average number of deaths of males from Pneumonia.^e More than an average proportion of males from Consumption, and less than an average proportion of males from Pneumonia, and vice versa.

TABLE XXIV.—*Exhibiting for the State and Eleven Geographical Divisions, in 1871, by Sex, the Number of Deaths from All Causes, from Consumption, from Pneumonia, and from Typhoid Fever; also the Per Cent. of Deaths from Consumption, Pneumonia, and Typhoid Fever, to Deaths from All Causes.*

STATE AND GEOGRAPHICAL DIVISIONS. *	SEX.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
			No. of Deaths.	Per Cent. to Deaths from all Causes.	No. of Deaths.	Per Cent. to Deaths from all Causes.	No. of Deaths.	Per Cent. to Deaths from all Causes.
State	Total	9,728	1,308	13.39	441	4.56	357	3.67
	Males	5,190	695	13.34	268	5.16	192	3.70
	Females	4,508	665	14.82	173	3.84	165	3.66
	Unknown	35						
Upper Peninsula	Total	331	26	7.85	5	1.51	8	2.42
	Males	192	15	7.81	3	1.56	6	3.13
	Females	139	11	7.91	2	1.44	2	1.44
Northwestern	Total	139	7	5.04	3	5.76	6	4.32
	Males	65	3	4.62	5	7.69	4	6.15
	Females	74	4	5.41	3	4.05	2	2.70
Northern	Total	83	9	10.23	1	1.14		
	Males	54	6	11.11	1	1.85		
	Females	34	3	8.82				
Northeastern	Total	48	6	12.50	3	6.25	5	10.42
	Males	33	3	9.09	2	6.06	4	12.12
	Females	15	3	20.00	1	6.67	1	6.67
Western	Total	913	118	12.92	45	4.98	34	3.72
	Males	498	53	10.64	26	5.22	23	5.02
	Females	410	65	15.85	19	4.63	9	2.20
	Unknown	5						

* For counties included in each division see page 293.

† For counties and townships from which no returns of deaths in 1871 were received, see Exhibit H, pages 204 to 206; for those in which no deaths occurred, see Exhibit I, page 207.

‡ More than an average per cent. of deaths from consumption, and less than an average per cent. of deaths from pneumonia, or vice versa. This is the case in seven out of the eleven geographical divisions.

TABLE XXIV.—CONTINUED.

GEOGRAPHICAL DIVISIONS.	SEX.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
			No. of Deaths.	Per Cent. to Deaths from all Causes.	No. of Deaths.	Per Cent. to Deaths from all Causes.	No. of Deaths.	Per Cent. to Deaths from all Causes.
Northern Central.....	Total.....	144	24	*16.67	4	*2.78	9	6.25
	Males.....	77	8	10.89	4	5.19	7	9.09
	Females....	67	16	28.88	.....	.....	2	2.99
Central	Total.....	1,649	249	15.10	95	5.76	62	3.76
	Males.....	888	105	12.58	51	6.11	28	3.31
	Females....	809	144	17.80	44	5.44	34	4.30
	Unknown ..	2	.....	.....	.....	.....	.....	.....
Bay and Eastern.....	Total.....	1,264	141	11.16	55	4.55	31	2.45
	Males.....	682	76	11.14	31	4.55	13	1.91
	Females....	576	65	11.28	24	4.17	18	3.12
	Unknown ..	6	.....	.....	.....	.....	.....	.....
Southwestern	Total.....	919	117	*12.73	52	*5.66	43	4.68
	Males.....	475	52	10.95	33	6.95	22	4.65
	Females....	439	65	14.81	19	4.35	21	4.73
	Unknown ..	5	.....	.....	.....	.....	.....	.....
Southern Central.....	Total.....	2,073	300	*14.47	91	*4.39	105	5.07
	Males.....	1,078	126	12.62	53	4.92	53	4.92
	Females....	988	164	16.60	38	3.85	52	5.26
	Unknown ..	7	.....	.....	.....	.....	.....	.....
Southeastern.....	Total.....	2,160	306	*14.17	82	*3.80	54	2.50
	Males.....	1,198	178	14.86	59	4.92	30	2.50
	Females....	952	128	13.45	23	2.42	24	2.52
	Unknown ..	10	.....	.....	.....	.....	.....	.....

* More than an average per cent. of deaths from consumption and less than an average per cent. of deaths from pneumonia, or *vice versa*. This is the case in seven out of the eleven geographical divisions.

TABLE XXV.—*Exhibiting for the State and by Counties, for year 1871, the Number of Deaths from All Causes, from Consumption, from Pneumonia, and from Typhoid Fever; the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, to Deaths from All Causes.*

AND COUNTIES.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
		Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.
.....	9,728	1,303	13.39	441	4.53	357	3.67
.....	5	2	40.00	.....	.....	.....	.....
.....	273	24	8.63	11	3.96	16	5.76
.....	13	1	7.69	3	23.08	1	7.69
.....	10	1	10.00	1	10.00	.....	.....
.....	164	29	17.68	11	6.71	8	4.88
.....	209	22	10.53	9	4.31	9	4.31
.....	18	1	5.56	1	5.56	1	5.56
.....	274	44	16.06	21	7.66	9	3.28
.....	174	24	13.79	13	7.47	10	5.75
.....	327	45	13.76	9	2.75	15	4.59
.....	135	19	14.07	8	5.93	9	6.67
.....	16	.....	.....	.....	.....	.....	.....
.....	12	1	8.33	.....	.....	.....	.....
.....	23	.....	.....	.....	.....	.....	.....
.....	9	2	22.22	.....	.....	.....	.....
.....	171	26	15.20	11	6.43	9	5.26
.....	23	2	8.70	2	8.70	1	4.35
.....	210	33	15.71	11	5.24	5	2.38
.....	47	7	14.89	.....	.....	.....	.....
.....	207	31	14.98	13	6.28	10	4.83
Traverse.....	25	2	8.00	4	16.00	2	8.00
.....	79	6	7.59	1	1.27	4	5.06
le.....	236	39	16.53	11	4.66	21	8.90
ton.....	110	8	7.27	1	.91	2	1.82

TABLE XXV.—CONTINUED.

COUNTIES.	All Causes.	CONSUMPTION.		PNEUMONIA.		TYPHOID FEVER.	
		Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.
Huron	106	8	7.55	2	1.89	1	.94
Ingham	192	25	13.02	10	5.21	5	2.60
Ionia	225	37	16.44	9	4.00	7	3.11
Iosco	28	3	13.04	—	—	1	4.85
Isabella	51	15	29.41	1	1.96	2	3.92
Jackson	285	82	13.62	16	6.81	10	4.36
Kalamazoo	248	49	19.76	6	2.42	13	5.24
Kalkaska	3	—	—	—	—	—	—
Kent	419	60	14.32	16	3.82	10	2.39
Keweenaw	^a	—	—	—	—	—	—
Lake	5	1	20.00	—	—	—	—
Lapeer	125	21	16.80	11	8.80	2	1.60
Leelanaw	55	2	3.64	2	3.64	—	—
Lenawee	331	40	12.08	14	4.23	16	4.83
Livingston	125	23	18.40	12	9.60	3	2.40
Mackinac	^a	—	—	—	—	—	—
Macomb	249	34	13.65	10	4.02	9	3.61
Manistee	85	1	28.57	1	2.86	3	8.57
Manitou	2	1	50.00	—	—	—	—
Marquette	154	10	6.49	1	.65	4	2.60
Mason	22	2	9.09	1	4.55	1	4.55
Mecosta	46	5	10.87	2	4.35	3	6.52
Menominee	3	—	—	—	—	1	33.33
Midland	38	2	5.26	1	2.63	4	10.53
Missaukee	^b	—	—	—	—	—	—
Monroe	202	29	14.36	9	4.46	4	1.93
Montcalm	121	13	10.74	3	2.48	8	6.61

^a No returns to this Department. ^b No deaths.

TABLE XXV.—Continued.

COUNTIES.	All Causes.	Consumption.		Pneumonia.		Typhoid Fever.	
		Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.	Number of Deaths.	Per cent. to Deaths from all causes.
Summit	106	12	8.82	6	4.41	7	8.15
Wayne	29	7	24.14	1	3.45	—	—
Madison	305	47	15.74	12	4.58	9	8.40
Clinton	70	11	15.71	3	4.29	—	—
Argos	18	6	33.33	1	5.56	—	—
Ashtabula	26	—	—	1	3.85	1	3.85
Clinton	306	25	12.14	17	8.25	15	7.28
Isle	7	—	—	—	—	3	42.86
Wayne	336	34	10.12	18	5.36	5	1.49
Clinton	73	13	17.81	2	2.74	2	2.74
Craft	a	—	—	—	—	—	—
Ashtabula	155	21	13.55	14	9.03	3	1.94
Clinton	334	32	9.58	12	3.59	8	2.40
Joseph	175	25	14.29	11	6.29	11	6.29
Ashtabula	81	11	13.58	1	1.23	4	4.94
Clinton	262	30	12.98	12	5.17	9	3.88
Wayne	297	46	15.49	11	3.70	9	3.03
Clinton	1,444	196	13.57	51	3.53	32	2.22
Clinton	4	—	—	—	—	—	—

a No returns to this Department.

TABLE XXVI.—*Exhibiting for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths at all Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5; also the Per Cent. of Deaths from Old Age, of all Aged 70 and Over, and of all Aged Under 5, to Deaths at all Ages, for the year 1871.*

STATE AND GEOGRAPHICAL DIVISIONS. ^a	SEX.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
			Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
State ^b	Total.....	9,728	872	8.92	955	9.82	3,843	39.50
	Males.....	5,190	479	9.23	557	10.73	2,097	40.40
	Females.....	4,508	393	8.72	398	8.84	1,746	38.74
	Unknown.....	85	.....	.....	.....	.....	29	34.12
Upper Peninsula.....	Total.....	831	7	0.84	12	1.44	185	22.26
	Males.....	492	1	0.20	5	1.02	107	21.56
	Females.....	339	6	1.77	7	2.06	78	23.01
Northwestern.....	Total.....	189	2	1.06	3	1.59	67	35.45
	Males.....	65	1	1.54	2	3.08	30	46.15
	Females.....	124	1	0.81	1	0.81	37	30.00
Northern.....	Total.....	88	1	1.14	2	2.27	47	53.41
	Males.....	54	1	1.85	2	3.70	27	50.00
	Females.....	34	.....	.....	.....	.....	20	58.82
Northeastern.....	Total.....	48	1	2.08	1	2.08	28	58.33
	Males.....	33	.....	.....	.....	.....	21	63.64
	Females.....	15	1	6.67	1	6.67	7	46.67
Western.....	Total.....	918	27	2.94	67	7.30	337	36.71
	Males.....	498	13	2.61	41	8.23	212	42.57
	Females.....	410	14	3.41	26	6.34	125	30.49
	Unknown.....	5	.....	.....	.....	.....	4	80.00
Northern Central.....	Total.....	144	1	0.69	5	3.47	65	45.14
	Males.....	77	1	1.30	3	3.90	34	44.16
	Females.....	67	.....	.....	2	2.99	31	46.27

^a For counties included in each Division, see page 232.

^b For counties and townships from which no returns of deaths in 1871 were received, see Exhibit H, page 204; for those in which no deaths occurred, see Exhibit I, page 207.

TABLE XXVI.—CONTINUED.

GEOGRAPHICAL DIVISIONS. ^a	SEX.	ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UN- DER 5.	
			Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
Central	Total	1,649	58	3.52	183	11.10	601	36.45
	Males	688	29	3.47	106	12.65	317	37.83
	Females	809	29	3.58	77	9.52	288	34.98
	Unknown	2					1	50.00
Bay and Eastern	Total	1,264	48	3.80	97	7.67	571	45.17
	Males	682	25	3.67	56	8.21	312	45.75
	Females	576	23	3.99	41	7.12	258	43.92
	Unknown	6					6	100.00
Southwestern	Total	919	33	3.59	89	9.68	350	38.08
	Males	475	17	3.58	53	11.16	195	41.05
	Females	439	16	3.64	36	8.20	152	34.62
	Unknown	5					3	60.00
Southern Central	Total	2,073	100	4.82	300	14.47	611	29.47
	Males	1,078	47	4.36	177	16.42	340	31.54
	Females	958	53	5.36	123	12.45	266	26.92
	Unknown	7					5	71.45
Southeastern	Total	2,160	94	4.35	196	9.07	931	43.10
	Males	1,198	44	3.67	112	9.35	502	41.90
	Females	952	50	5.25	84	8.82	419	44.01
	Unknown	10					10	100.00

^a For counties included in each Division, see page 232.

TABLE XXVII.—*Exhibiting, for the State and Counties of Michigan, the Average Age of Inhabitants of each Sex, in 1870, the Number of Deaths at all Ages, from Old Age, of all Aged 70 and Over, and of all Aged Under 5, in 1871; also the Per Cent. of Deaths from Old Age, of all Aged 70 and Over, and of all Aged Under 5, to Deaths at all Ages.*

STATE AND COUNTIES.	Average Age of Inhabitants June 1, 1870.		ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Males.	Females.	Number of Deaths.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
State..... ^a	24.91	23.68	9,728	872	8.82	955	9.82	8,843	89.50
Alcona..... ^a	23.26	20.65	5	—	—	—	—	8	60.00
Allegan..... ^a	24.11	23.26	278	6	2.88	19	6.88	125	44.96
Alpena.....	23.46	21.04	13	—	—	—	—	6	46.15
Antrim.....	23.29	21.84	10	—	—	—	—	7	70.00
Barry.....	24.74	23.56	164	5	3.05	23	14.02	70	42.68
Bay..... ^a	23.42	21.12	209	2	.96	7	3.35	119	56.93
Benzie..... ^a	25.84	22.28	18	—	—	—	—	12	6.67
Berrien.....	24.71	23.26	274	8	2.92	22	8.03	93	33.94
Branch.....	26.67	25.58	174	9	5.17	24	13.79	53	30.46
Calhoun.....	26.42	25.48	327	15	4.59	45	13.76	96	29.36
Cass..... ^a	24.93	24.06	135	5	3.70	18	13.33	51	37.78
Charlevoix..... ^a	23.25	21.20	16	—	—	—	—	9	56.25
Cheboygan.....	22.87	20.62	12	—	—	1	8.33	5	41.67
Chippewa.....	23.35	23.17	23	4	17.39	5	21.74	8	34.78
Clare..... ^a	27.50	21.96	9	—	—	—	—	4	44.44
Clinton.....	24.59	23.48	171	7	4.09	17	9.94	62	36.26
Delta..... ^a	24.45	19.27	23	—	—	—	—	13	56.52
Eaton.....	25.43	24.05	210	2	.95	23	10.95	70	33.33
Emmet.....	23.33	24.00	47	1	2.13	1	2.13	26	55.32
Genesee.....	25.72	24.55	207	9	4.35	25	12.08	75	36.23
Grand Traverse..... ^a	23.54	21.93	25	—	—	2	8.00	11	44.00
Gratiot.....	23.35	21.92	79	2	2.53	6	7.59	33	43.10
Hillsdale.....	26.51	25.29	286	15	5.24	43	15.03	81	28.32

^a Except counties and townships not represented by returns of deaths; see Exhibit H, pages 204-206. The statement of average age is of all inhabitants of the State.

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants June 1, 1870.		ALL AGES. Number of Deaths.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Males.	Females.		Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
Houghton.....	a 21.64	19.34	110	---	---	8	2.73	59	53.64
Huron.....	a 22.49	20.21	106	3	2.83	5	4.72	47	44.34
Ingham.....	25.09	24.38	192	8	4.17	25	13.02	68	35.42
Ionia.....	a 25.16	24.07	225	5	2.22	18	8.00	76	33.78
Iosco.....	a 23.99	21.09	23	---	---	---	---	15	65.22
Isabella.....	a 23.39	20.49	51	---	---	2	3.92	23	45.10
Jackson.....	26.71	24.99	235	19	8.09	44	18.72	65	27.66
Kalamazoo.....	25.94	25.10	248	6	2.42	21	8.47	78	31.45
Kalkaska.....	a 24.38	18.83	3	---	---	---	---	---	---
Kent.....	25.32	24.00	419	14	3.34	42	10.02	182	43.44
Lake.....	24.01	20.68	5	---	---	---	---	2	40.00
Lapeer.....	24.57	23.10	125	8	6.40	15	12.00	46	36.80
Leelanaw.....	a 23.40	21.64	55	1	1.82	1	1.82	28	50.91
Lenawee.....	27.03	26.15	331	13	3.93	49	14.50	106	32.02
Livingston.....	26.01	24.93	125	6	4.80	25	20.00	34	27.20
Macomb.....	25.31	24.38	249	12	4.82	27	10.84	82	32.98
Manistee.....	a 23.55	20.87	35	1	2.86	---	---	13	37.14
Manitou.....	a 22.49	20.13	2	---	---	---	---	1	50.00
Marquette.....	23.04	20.00	154	2	1.30	3	1.95	94	61.04
Mason.....	a 24.27	21.27	22	1	4.55	1	4.55	7	31.82
Mecosta.....	a 23.86	20.97	46	1	2.17	2	4.35	21	45.65
Menominee.....	a 23.79	19.42	3	---	---	---	---	2	66.67
Midland.....	a 24.14	21.58	88	---	---	1	2.63	17	44.74
Monroe.....	24.12	23.28	202	6	2.97	21	10.40	79	39.11
Montcalm.....	a 23.64	22.45	121	4	3.31	6	4.96	50	41.32
Muskegon.....	a 24.09	22.00	136	2	1.47	5	3.68	60	44.12
Newaygo.....	a 23.51	21.50	29	---	---	1	3.45	10	34.48
Oakland.....	26.57	25.31	265	9	3.40	44	16.60	58	21.89
Oceana.....	a 24.03	22.57	70	1	1.43	3	4.29	25	35.71

a Except counties and townships not represented by returns of deaths; see Exhibit H, pages 204-206. The statement of average age is of all inhabitants of the State.

TABLE XXVII.—CONTINUED.

COUNTIES.	Average Age of Inhabitants June 1, 1870.		ALL AGES.	OLD AGE.		AGED 70 AND OVER.		AGED UNDER 5.	
	Males.	Females.	Number of Deaths.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.	Number of Deaths.	Per Cent. of Deaths at all Ages.
Ontonagon.....	21.07	19.25	18	1	5.56	1	5.56	9	50.00
Osceola..... ^a	23.27	20.52	26	1	3.85	2	7.69	16	61.54
Ottawa..... ^a	23.95	22.19	206	8	3.88	13	6.31	85	41.26
Presque Isle.....	25.13	19.38	7	1	14.29	1	14.29	4	57.14
Saginaw..... ^a	23.81	21.62	386	10	2.98	19	5.65	177	52.63
Sanilac..... ^a	22.30	20.62	73	3	4.11	7	9.59	21	23.77
Shiawassee.....	24.69	23.67	155	10	6.45	15	9.68	58	37.49
St. Clair.....	23.61	22.26	334	20	5.99	37	11.08	130	38.99
St. Joseph.....	25.85	24.75	175	8	4.57	25	14.29	56	32.00
Tuscola..... ^a	23.53	21.99	81	2	2.47	7	8.64	31	38.27
Van Buren.....	25.24	23.90	232	12	5.17	30	12.93	81	34.91
Washtenaw..... ^a	26.36	25.32	207	15	5.05	49	16.50	76	25.59
Wayne..... ^a	24.37	23.54	1,444	67	4.64	104	7.20	712	49.31
Wexford..... ^a	24.66	22.07	4	—	—	—	—	2	50.00

^a Except counties and townships not represented by returns of deaths; see Exhibit H, pages 204-206. The statement of average age is of all inhabitants of the State.

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1871.

MONTHS, 1871.												SEX AND OCCUPATION.	CONJUGAL CONDI- TION.	Year 1871.	AGES IN PERIODS.																		
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.				Unknown.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.
85	36	54	59	59	49	56	59	53	48	59	60	8	685	Total	49	8	13	38	61	58	62	54	46	47	39	40	34	33	18	14	7	14	
22	21	26	31	33	34	28	31	28	21	32	27	5	389	Married..	...	...	...	1	8	26	41	42	33	40	30	37	29	23	11	8	5	8
10	12	22	25	20	9	19	21	23	24	23	26	8	237	Single...	49	8	13	33	51	26	17	11	9	3	4	1	8	3	...	2	1	8	
2	2	4	1	5	4	4	3	2	1	2	4	...	34	Widowed	...	...	...	...	...	1	1	1	2	4	3	2	5	6	2	1	1	...
1	1	1	2	2	1	2	5	4	...	2	2	3	...	25	Unknown	4	2	5	3	...	2	2	1	2	...
27	29	46	53	58	49	42	56	53	52	39	62	11	582	Total ....	...	15	19	74	101	77	55	49	29	26	23	26	19	18	19	9	6	17
18	20	25	25	32	28	25	30	30	33	19	36	6	827	Married..	...	...	...	8	50	55	42	44	22	17	21	18	14	9	8	6	3	10
6	4	17	21	20	17	13	18	14	14	14	18	5	181	Single...	...	15	18	60	49	18	9	1	3	1	1	1	1	...	...	...	1	3
1	3	3	4	5	2	2	4	10	3	5	7	...	49	Widowed	...	...	...	...	...	2	3	4	2	7	...	5	3	8	10	1	2	2
2	2	1	3	1	2	2	4	4	2	1	1	...	25	Unknown	...	...	...	1	6	2	1	...	2	1	1	2	1	1	1	2	...	2
21	26	38	38	43	42	28	43	47	40	28	49	6	449	Total ....	...	10	10	54	77	68	49	47	23	18	14	19	13	12	17	6	3	9
16	18	22	20	26	27	19	28	27	31	13	20	3	280	Married..	...	...	...	8	47	54	39	44	20	11	13	12	9	4	7	4	1	7
3	4	12	13	13	12	8	11	6	6	10	13	3	114	Single...	...	10	9	42	29	12	7	...	1	1	1	1	...	...	...	...	...	1
1	3	3	2	4	1	1	3	10	3	5	6	...	43	Widowed	...	...	...	...	...	2	3	3	5	...	4	3	8	9	1	2	1	...
1	1	1	2	...	2	...	1	4	13	Unknown	2	1	1	1

3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
Unknown,										Males.										All Specified Occupations,										Total.										Specified Occupations,										Females. (Class XII.)										Specified Occupations,										Males. (Classes I.—XI.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

6	3	5	15	15	7	14	13	11	12	11	18	5	133	Total
2	2	3	5	6	1	6	2	3	2	6	6	8	47	Married...
3	5	8	7	5	5	7	8	8	4	5	2	67	Single	
1	1	1	1	1	1	1	1	1	1	1	1	6	Widowed	
1	1	1	1	1	2	3	2	3	2	1	1	18	Unknown	
45	49	64	62	66	59	62	61	56	53	65	70	6	721	Total
26	26	29	32	37	43	33	35	29	27	34	34	4	395	Married...
14	19	25	28	23	11	23	23	21	24	25	29	2	267	Single
2	3	8	1	6	3	2	4	2	4	5	48	Widowed		
1	2	1	2	1	2	3	1	2	2	2	16	Unknown		
19	16	18	18	22	17	20	15	14	17	17	23	3	219	Total
12	7	6	10	10	11	6	4	8	8	13	2	103	Married...	
7	7	8	11	10	7	9	6	8	6	8	1	97	Single	
1	4	1	2	2	2	1	2	2	2	2	15	Widowed		
1	1	1	1	1	1	1	1	1	1	1	4	Unknown		
29	33	46	44	44	42	42	46	42	36	45	47	3	502	Total
19	23	26	27	33	22	29	25	19	26	21	2	292	Married...	
7	12	17	17	13	4	14	15	16	19	21	1	170	Single	
2	2	4	4	3	8	2	2	1	2	3	28	Widowed		
2	1	2	1	2	3	1	1	1	1	1	12	Unknown		

Occupations	...	5	9	20	24	9	6	2	6	8	9	7	6	6	2	3	6
Unknown,	...	...	...	8	1	3	...	...	2	6	8	6	5	5	1	2	3
Males.	...	5	9	18	20	6	2	1	2	...	...	1	...	...	...	1	2
	...	...	...	...	...	...	...	1	2	...	...	1	...	...	1	...	1
	...	...	2	1	2	1	...	2	...	...	1	...	1	...	1	...	2
	93	4	5	43	75	72	76	68	47	47	37	42	37	31	22	12	4
All Specified Occupations,	...	...	8	19	38	54	57	38	39	29	39	26	30	14	7	3	5
Total.	93	4	5	33	33	27	15	10	7	4	1	2	3	...	2	...	1
	...	...	...	...	...	2	2	1	2	4	2	9	7	7	2	1	...
	...	...	2	3	5	2	...	...	...	1	...	1	...	1	1	...	...
	44	1	1	25	33	23	20	16	7	8	7	9	8	5	6	1	...
Specified Occupations,	...	...	7	14	13	16	15	7	5	6	8	5	2	4	1	...	...
Females. (Class XII.)	44	1	1	18	22	7	3	...	1	...	...	...	...	...	...	...	...
	...	...	...	...	1	1	1	...	2	1	1	3	3	2	...	...	...
	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...
	49	3	4	18	37	49	56	52	40	39	30	33	29	26	16	11	4
Specified Occupations,	...	...	1	5	25	33	42	31	34	22	31	21	18	10	6	3	5
Males. (Classes I.-XI.)	49	3	4	15	31	20	15	10	7	3	4	1	2	3	...	2	...
	...	...	...	...	1	1	...	2	2	3	1	6	4	5	2	1	...
	...	...	2	1	3	2	...	...	...	1	...	1	...	1	1	...	...

[illegible]

[illegible]

* Includes all under five years of age.

[illegible]

FIFTH REGISTRATION REPORT.

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1871.

[illegible]

[illegible]

[illegible]

^a Includes all under five years of age.

TABLE XXVIII.—CONTINUED.—Deaths from Consumption, 1871.

MONTHS, 1871.												AGES IN PERIODS.																				
January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	Year 1871.	SEX AND OCCUPATION.																		
CONJUGAL CONDI- TION.													CLASS XI.—(Continued.)																			
													Seamstress.																			
													Sister of Charity.																			
													Student.																			
													Tailoress.																			
													Teachers.																			
													Unemployed.*																			
													Weaver.																			
													Wives.																			
1	1	1	1	1	1	1	1	1	1	1	1	1	1	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unknown.	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	44	1	1	14	15	6	7	4	8	1	2	2	3	1	1	1	1	1	1
6	6	2	2	2	2	1	1	1	4	1	2	2	23	44	1	1	12	11	2	1	1	1	1	1	1	1	2	1	1	1	1	1
4	4	8	7	7	2	9	8	5	8	1	6	1	72	1	1	1
1	1	1	1	2	1	...	2	...	8	1	1
1	1	1	1	1	1	2	1	1
1	1	1	1	1
1	1	1	1	2	1	6
...	...	1	1	2	1	1	...	6
...	...	1	1	4
...	...	1	1	2	2
...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1
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...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1
...	1		

* Includes all under five years of age.

In Table XXVIII. all males aged fifteen years and under, and all females aged twelve years and under were compiled as single when the conjugal condition was not stated. This table is similar to Table XXIX. in "Vital Statistics, 1870," and to Table XX. in the Report for 1869.

EXHIBIT Q.—*The Average Age of the Inhabitants of Michigan, of Both Sexes, of Each Sex, and the Difference between the Sexes, for all Living June 1, 1870, and all returned as having Died during the Year ending June 1, 1870, as Compiled from the U. S. Census of that date; for all returned as having Died from Consumption during the Year 1870; for all returned as having Died from All Causes during the years 1870 and 1871, as shown by the Registration Returns; for all Living Aged Twenty and Over, as per Census June 1, 1870; for all Aged Twenty and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870 and 1871.*

	AVERAGE AGE IN YEARS AND 100THS OF A YEAR.				YEAR END- ING:
	Total.	Males.	Females.	Excess of Males.	
Deaths, as per Census.....	24.79	25.17	24.39	.78	June 1st, 1870.
Living, as per Census.....	24.82	24.91	23.63	1.28	June 1st, 1870.
Deaths as shown by Registration Returns..	23.50	24.05	22.89	1.16	Dec. 31st, 1870.
Deaths from Consumption, by Reg. Returns	34.95	36.89	33.14	3.75	Dec. 31st, 1870.
All Living aged 20 and over, per Census....	38.23	38.61	37.80	.81	June 1st, 1870.
All aged 20 and over, whose occupations were stated in Reg. Returns of Deaths....	51.01	52.45	45.96	6.49	Dec. 31st, 1870.
Deaths as shown by Registration Returns..	25.63	26.78	24.50	2.28	Dec. 31st, 1871.
All aged 20 and over, whose occupations were stated in Reg. Returns of Deaths....	51.44	52.79	46.45	6.34	Dec. 31st, 1871.

Rule used for obtaining the average age: Multiply the number at each age by the age; add the results, and then add one-half month for each person under one year, and one-half year for each person over one year of age, and divide the product by the whole number of inhabitants, or persons dead, as the case may be, less the number at unknown ages.

TABLE XXIX.—*Exhibiting, by Classified Occupations, the Number, with the Aggregate and Average Ages of all whose Occupations and Ages were returned, of those Aged Twenty Years and Over,—One-half of a Year added to Age of each Person, in place of Months and Days Excluded.*

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
	ALL SPECIFIED OCCUPATIONS.....	2,591	188,271.50	51.44
I.	CULTIVATORS OF THE EARTH	1,096	62,499.00	57.02
II.	ACTIVE MECHANICS ABROAD.....	128	6,744.00	52.69
III.	ACTIVE MECHANICS IN SHOPS.....	150	7,544.00	50.29
IV.	INACTIVE MECHANICS IN SHOPS.....	77	8,924.50	50.96
V.	LABORERS—NO SPECIAL TRADES.....	258	11,864.50	44.99
VI.	AGENTS, LABORERS ABROAD, ETC.....	69	3,082.50	48.95
VII.	SEAFARING MEN.....	28	1,096.00	39.14
VIII.	SOLDIERS.....	2	124.00	62.00
IX.	BUSINESS MEN.....	187	6,241.50	45.56
X.	PROFESSIONAL MEN.....	62	2,388.00	45.77
XI.	UNEMPLOYED.....	36	2,182.00	60.61
XII.	FEMALES	558	25,684.50	46.45
I.	CULTIVATORS OF THE EARTH.....	1,096	62,499.00	57.02
	Farmers.....	1,085	61,899.50	57.05
	Farmers and Gardeners.....	1	42.50	42.50
	Farmers' Sons.....	1	20.50	20.50
	Farm Laborers.....	1	24.50	24.50
	Fruit Growers.....	1	48.50	48.50
	Gardeners.....	2	185.00	67.50
	Nurserymen.....	1	60.50	60.50
	Retired Farmers.....	4	268.00	67.00
II.	ACTIVE MECHANICS ABROAD.....	128	6,744.00	52.69
	Bricklayers.....	1	49.50	49.50
	Builders.....	2	94.00	47.00
	Carpenters.....	77	4,376.50	56.83
	Carpenters and Joiners.....	2	72.00	36.00

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
II.	ACTIVE MECHANICS ABROAD—(Continued).			
	Caulkers.....	1	25.50	25.50
	Joiners.....	6	802.00	50.33
	Masons.....	16	826.00	51.62
	Painters.....	15	638.50	42.57
	Pavers.....	1	53.50	53.50
	Ship-carpenters.....	2	103.00	51.50
	Stone-masons.....	5	203.50	40.70
III.	ACTIVE MECHANICS IN SHOPS.....	150	7,544.00	50.29
	Bakers.....	4	238.00	59.25
	Basket-makers.....	1	66.50	66.50
	Blacksmiths.....	21	1,150.50	54.78
	Boiler-makers.....	8	127.50	42.50
	Brass-finishers.....	1	22.50	22.50
	Brewers.....	4	146.00	36.50
	Cabinet-makers.....	7	360.50	51.50
	Candy-makers.....	1	45.50	45.50
	Cooks.....	1	49.50	49.50
	Coopers.....	12	656.00	54.65
	Engineers.....	12	443.00	36.91
	Glaziers.....	1	35.50	35.50
	Gunsmiths.....	1	42.50	42.50
	Hoop and Shingle-makers.....	1	28.50	28.50
	Lithographers.....	1	24.50	24.50
	Machinists.....	7	286.50	40.92
	Manufacturers.....	1	38.50	38.50
	Mechanics.....	22	1,187.00	53.95
	Millers.....	18	719.50	55.84
	Millwrights.....	2	122.00	61.00
	Moulders.....	2	122.00	61.00
	Pattern-makers.....	1	36.50	36.50

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
III.	ACTIVE MECHANICS IN SHOPS—(Continued.)			
	Plasterers.....	8	159.50	59.16
	Sawyers.....	4	188.00	84.50
	Saw-makers.....	1	89.50	89.50
	Stone cutters.....	2	79.00	89.50
	Tanners.....	8	196.50	64.50
	Tinsmiths.....	5	197.50	89.50
	Tinners.....	1	25.50	25.50
	Trunk-manufacturers.....	1	87.50	87.50
	Turners.....	1	68.50	68.50
	Upholsterers.....	2	89.00	44.50
	Wagon-makers.....	4	279.00	69.75
	Weavers.....	8	229.50	76.50
	Wood-turners.....	1	24.50	24.50
IV.	INACTIVE MECHANICS IN SHOPS.....	77	3,924.50	50.96
	Barbers.....	5	177.50	85.50
	Cigar-makers.....	1	59.50	59.50
	Harness-makers.....	9	359.50	89.94
	Jewelers.....	2	92.00	46.00
	Printers.....	8	96.50	82.16
	Saddlers.....	2	57.00	28.50
	Shoemakers.....	83	1,967.50	59.69
	Tailors.....	17	961.50	56.55
	Telegraph Operators.....	4	108.00	25.75
	Tobacconists.....	1	50.50	50.50
V.	LABORERS—NO SPECIAL TRADES.....	258	11,864.50	44.99
	House-keepers.....	1	58.50	58.50
	Laborers.....	282	10,519.00	45.84
	"Mill Man".....	1	88.50	88.50
	Miners.....	14	548.00	82.73
	Nurses.....	1	51.50	51.50

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	Ave.	
			Aggregate.	Average.
	LABORERS—No SPECIAL TRADES—(Continued).			
	Raftsmen	1	21.50	21.50
	Railroad Laborers.....	2	76.00	38.00
	"Saw-mill".....	1	56.50	56.50
VI.	AGENTS, LABORERS ABROAD, ETC.....	69	8,082.50	48.95
	Bar-tenders.....	1	30.50	30.50
	Brakemen.....	2	45.00	22.50
	Butchers.....	8	366.00	45.75
	Constables.....	1	56.50	56.50
	Draymen.....	4	271.00	67.75
	Drivers.....	1	40.50	40.50
	Drovers.....	1	49.50	49.50
	Farriers.....	1	54.50	54.50
	Fish-mongers.....	1	88.50	88.50
	Foremen.....	1	44.50	44.50
	Government Watchmen.....	1	73.50	73.50
	Hostlers.....	2	69.00	34.50
	Hunters.....	2	99.00	49.50
	Livery-keepers.....	4	155.00	38.75
	Lumbermen.....	17	740.50	43.55
	Mining Agents.....	1	48.50	48.50
	Musicians.....	1	23.50	23.50
	Peddlers.....	4	189.00	47.25
	Policemen.....	1	40.50	40.50
	Railroad Employes.....	1	20.50	20.50
	Railroad Conductors.....	4	170.00	42.50
	Sportsmen.....	1	48.50	48.50
	Teamsters.....	8	328.00	41.00
	Traveling Agents.....	1	40.50	40.50
VII.	SEAFARING MEN.....	28	1,096.00	39.14
	Boatmen.....	1	27.50	27.50

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
VII.	SEAFARING MEN.—(Continued.)			
	Fishermen.....	9	96 00	48.00
	Sailors.....	23	899.50	39.10
	Seamen.....	1	26.50	26.50
	Ship Captains.....	1	46.50	46.50
VIII.	SOLDIERS.....	2	124.00	62.00
IX.	BUSINESS MEN.....	137	6,241.50	45.56
	Bankers.....	5	196.50	39.30
	Book-keepers.....	7	249.50	35.64
	City Treasurers.....	1	41.50	41.50
	City Controllers.....	1	56.50	56.50
	Clerks.....	26	874.00	33.61
	Clothiers.....	2	115.00	57.50
	County Treasurers.....	1	53.50	53.50
	Druggists.....	3	144.50	48.16
	Grocers.....	5	252.50	50.50
	Horse-dealers.....	1	42.50	42.50
	Hotel-keepers.....	12	646.00	53.83
	Hotel Clerks.....	1	21.50	21.50
	Insurance Agents.....	3	182.50	60.83
	Justices of the Peace.....	1	69.50	69.50
	Landlords.....	2	105.00	52.50
	Land Agents.....	1	71.50	71.50
	Liquor-dealers.....	1	88.50	88.50
	Lumber-dealers.....	4	150.00	37.50
	Lumber Inspectors.....	1	56.50	56.50
	Merchants.....	80	1,453.00	48.43
	Omnibus Proprietors.....	1	51.50	51.50
	Overseers of Mining Companies.....	1	35.50	35.50
	Owners of Steam Saw-Mills.....	1	42.50	42.50
	Postmasters.....	2	141.00	70.50

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
IX.	BUSINESS MEN.—(Continued.)			
	Produce-dealers.....	1	64.50	64.50
	Revenue Officers.....	1	62.50	62.00
	Salesmen.....	1	48.50	48.50
	Saloon-keepers.....	17	755.50	44.44
	Shoe Merchants.....	2	87.00	43.50
	Traders.....	1	65.50	65.50
	Woolen Manufacturers.....	1	72.50	72.50
X.	PROFESSIONAL MEN.....	62	2,588.00	45.77
	Architects.....	1	22.50	22.50
	Artists.....	2	73.00	36.50
	Dentists.....	5	148.50	29.70
	Editors and Printers.....	1	56.50	56.50
	Lawyers.....	15	687.50	45.83
	Ministers.....	12	657.00	54.75
	Physicians.....	15	781.50	52.10
	Priests.....	1	55.50	55.50
	Public Speakers.....	1	86.50	86.50
	Students.....	1	21.50	21.50
	Surveyors.....	1	26.50	26.50
	Teachers.....	7	271.50	38.78
XI.	UNEMPLOYED.....	86	2,182.00	60.61
	"Gentlemen".....	2	187.00	68.50
	Paupers.....	4	276.00	69.00
	Retired.....	1	77.50	77.50
	Unemployed.....	29	1,691.50	58.33
XII.	FEMALES.....	553	25,684.50	46.45
	Blacksmiths' Wives.....	2	110.00	55.00
	Cabinet-makers.....	1	48.50	48.50
	Carpenters' Wives.....	1	88.50	88.50

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
XII.	FEMALES.—(Continued.)			
	Cooks	2	67.00	33.50
	Domestics.....	2	62.00	41.00
	Dress-makers.....	8	91.50	30.50
	Farmers.....	67	8,557.50	58.09
	Farmers' Daughters.....	1	25.50	25.50
	Farmers' Widows.....	1	75.50	75.50
	Farmers' Wives.....	61	2,915.50	47.79
	Hair-dressers.....	1	22.50	22.50
	Hotel-keepers.....	1	25.50	25.50
	House-keepers.....	132	6,020.00	45.60
	Housewives	85	1,671.50	47.75
	House-workers	22	1,139.00	51.77
	Joiners	1	42.50	42.50
	Laborers.....	5	207.50	41.50
	Laborers' Wives.....	1	55.50	55.50
	Lumbermen's Wives.....	1	20.50	20.50
	Masons.....	1	58.50	58.50
	Manufacturers' Wives.....	1	84.50	84.50
	Matrons	1	75.50	75.50
	Merchants' Wives.....	1	86.50	86.50
	Milliners.....	4	97.00	24.25
	Millwrights.....	1	67.50	67.50
	Ministers.....	1	67.50	67.50
	Ministers' Wives.....	1	72.50	72.50
	Mothers.....	1	22.50	22.50
	Music Teachers.....	3	87.50	29.16
	Nurses.....	2	112.00	56.00
	Peddlers.....	1	64.50	64.50
	Physicians' Wives.....	1	49.50	49.50
	Portrait Painters.....	1	22.50	22.50
	Prostitutes	1	28.50	28.50

TABLE XXIX.—CONTINUED.

CLASSES.	OCCUPATIONS.	No. of Persons.	AGE.	
			Aggregate.	Average.
XII.	FEMALES.—(Continued.)			
	Sailors' Wives.....	1	28.50	28.50
	Saloon-keepers.....	1	52.50	52.50
	Seamstresses.....	8	122.50	40.83
	Servants.....	4	91.00	22.75
	Sisters of Charity.....	1	27.50	27.50
	Stove Manufacturers' Wives.....	1	88.50	88.50
	Tailoresses.....	4	138.00	34.50
	Teachers.....	15	410.50	27.36
	Unemployed.....	189	6,490.50	46.69
	Weavers.....	4	282.00	70.50
	Wives.....	19	910.50	47.92

The occupation is not yet stated in the returns of deaths for all who die at such ages as people usually have occupations. Some Supervisors seem to think that the occupation should only be stated where the deceased was employed very nearly to the time of death. Knowledge of the nature of the employment is wanted to render it possible to answer the question of the nature and extent of the influence of employments and coincident surrounding conditions in the production of certain diseases, as well as in increasing their fatality. The employment of every person above the age of childhood should be stated, and when necessarily unemployed for some time before death, the previous occupation should be given. Many Supervisors still fail to state the occupation of females. It should be stated in every instance.

TABLE XXX.—Exhibiting for the Year, for each Month, and an Average Month, during the Year 1871, the Mean Height and Range of Barometer; the Direction of the Prevailing Winds; the Relative Humidity; the Per Cent. of Cloudiness; the Number of Days on which it Rained or Snowed; and the Depth of Rain and Melted Snow in Inches, at the Agricultural College, near Lansing, Michigan.

YEAR AND MONTHS, 1871.	DAYS OF PREVAILING WINDS.								Range of Barom- eter. Reduced to 32° Fahr.	Barometer Re- duced to 32° Fahr. —Mean.		
	North.	Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.				
Year.....	85	51	16	23	10	152	56	22	80.25	58.58	109	27.21
January.....	---	4	4	---	1	8	18	1	98	83	16	8.95
February.....	1	6	5	1	1	5	9	---	90	69	10	1.78
March.....	1	8	8	2	---	16	4	2	83	66	11	8.91
April.....	2	4	---	2	---	16	8	3	74	68	12	2.97
May.....	4	4	---	4	1	18	8	1	72	87	8	1.97
June.....	8	2	---	2	---	11	5	2	74	43	9	2.98
July.....	6	4	4	2	1	11	6	1	77	49	8	8.10
August.....	4	4	2	8	2	12	8	1	78	44	7	1.49
September.....	5	7	---	---	2	10	1	4	78	48	4	.79
October.....	1	2	---	1	2	28	2	---	72	53	5	1.48
November.....	---	9	---	4	---	10	8	4	86	69	9	1.95
December.....	8	1	1	2	---	17	4	8	86	81	10	1.76
Monthly Average.....	2.92	4.25	1.95	1.92	.88	12.67	4.67	1.88	80.25	58.58	9.08	2.27

The material for Tables XXX. and XXXI. was taken from the Report of the State Board of Agriculture for the year 1870. The observations, upon which the statements are based, were made by Prof. R. C. Kedzie, M. D., at the Agricultural College, near Lansing.

The material for Table XXXII., so far as relates to the month of July was received from the Smithsonian Institution, at Washington, D. C., and that for the months of August to December, inclusive, from J. M. Blakely, of Alpena, Michigan. The observations upon which the statements in the table are based were made by J. W. Paxton at Sugar Island, Alpena Co., who contributed the material for the first half of the table.

TABLE XXXI.—*Exhibiting the Mean Temperature; the Highest and Lowest Temperature; the Monthly Range; the Mean Daily Range; the Mean Range from Day to Day; and the Greatest Rise or Fall of Thermometer in Twenty-four Hours for each Month of the Year 1871, at the Agricultural College, near Lansing, Michigan.*

YEAR AND MONTHS, 1871.	THERMOMETER.—FAHRENHEIT.							
	THREE OBSERVATIONS DAILY, AT 7 A. M., 2 P. M., AND 9 P. M.				MEAN RANGE.		GREATEST CHANGE IN 24 HOURS.	
	Mean.	Highest.	Lowest.	Range.	Daily, ^a	From Day to Day. ^b	Degrees of Rise and Fall.	Day and Month.
Year.....	47.98	100	-23	123	16.52°	19.97°	F. 52°	Apr. 9
January.....	24.75	57	5	52	8.35°	11.08°	R. 23°	4
February.....	25.65	57	-2	59	13.71	17.39	R. 31	28
March.....	38.18	70	23	47	14.42	19.26	R. 29	25
April.....	50.13	67	32	55	19.13	24.83	F. 52	9
May.....	61.39	94	41	53	18.39	22.09	R.&F. 31	11
June.....	68.21	98	44	54	18.88	21.60	R. 35	14
July.....	70.60	95	49	46	18.61	21.48	R. 37	29
August.....	71.19	100	51	46	18.55	21.74	R. 38	6
September.....	58.10	95	31	65	22.48	24.80	R. 37	30
October.....	53.91	80	27	53	18.39	21.90	R.&F. 40	21
November.....	51.95	62	-2	64	15.27	18.23	R. 33	7
December.....	21.12	51	-23	74	12.13	15.35	R.&F. 29	23

^a Observed day of 14 hours,—three observations,—at 7 a. m., 2 p. m., and 9 p. m.

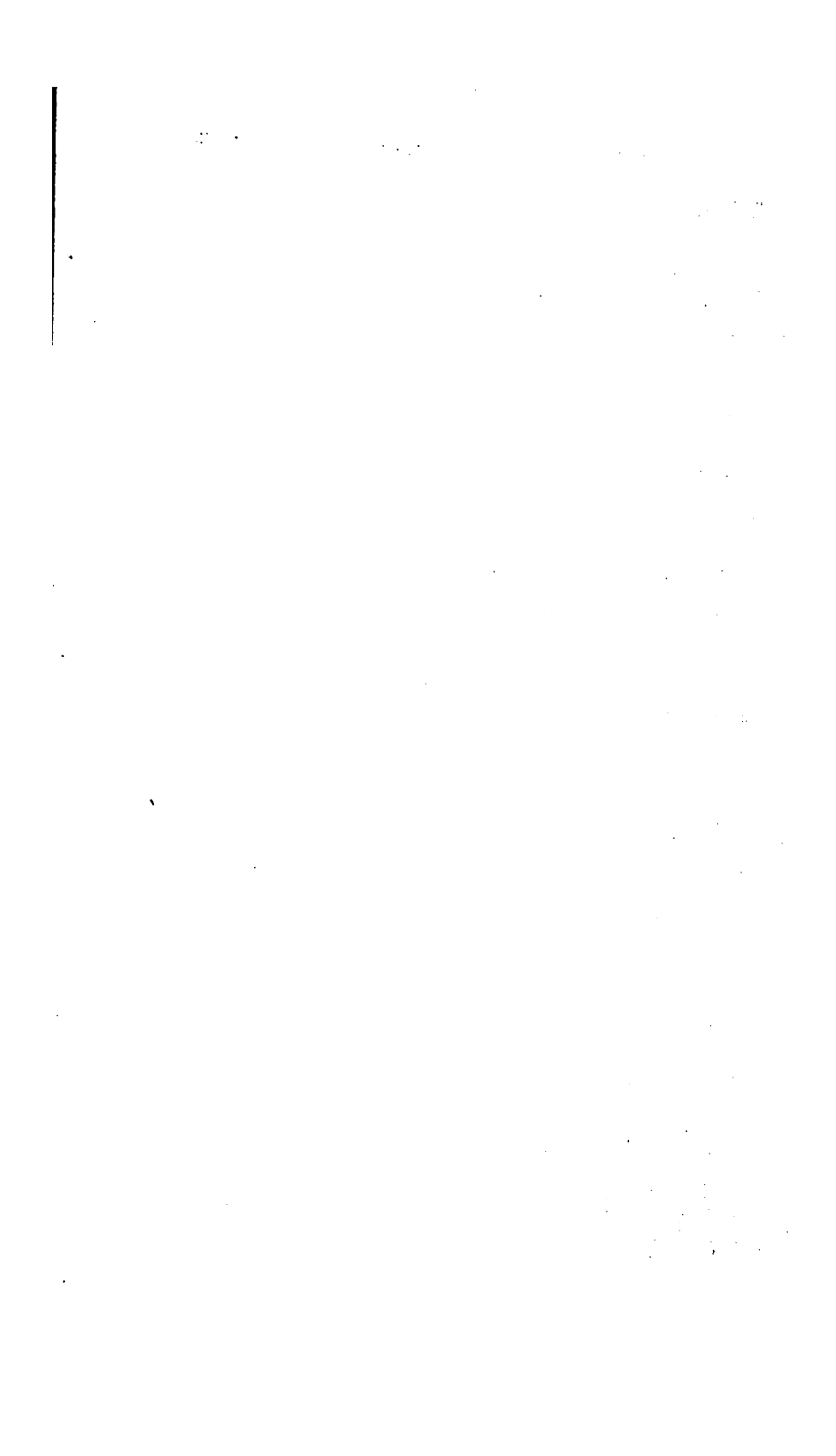
^b From day to day,—2 p. m. to 2 p. m.

TABLE XXXII.—*Showing the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, the Average Range from Day to Day, the Greatest Change in 14 and 24 Hours; and also the Days of Prevailing Winds, the Average Cloudiness of Sky, the No. of Days on which it Rained or Snowed, and the Amount of Rain and Melted Snow in Inches, for each Month of the Year 1871, at Sugar Island, Alpena Co., Michigan.*

YEAR AND MONTHS, 1871.	THERMOMETER—FAHRENHEIT.										DAYS OF PREVAILING WINDS.												No. of Days on which It Rained or Snowed.	Rain and Melted Snow, in Inches.				
	GREATEST CHANGE IN 14 HOURS,—7 A. M. TO 9 P. M.			GREATEST CHANGE IN 24 HOURS,—2 P. M. TO 2 P. M.																								
	Mean.	Highest.	Range.	Degrees of Rise or Fall.		Day of Month.	Degrees of Rise or Fall.		Day of Month.	North.		Northeast.		East.		Southeast.		South.		Southwest.		West.			Northwest.			
				Av. Range from Day to Day, & P. M. to P. M.	Day of Month.		Day of Month.	North.		Northeast.	East.	Southeast.	South.	Southwest.	West.	Northwest.												
	Year	42.45°	76°	-9° 85°			R. 20	Oct. 21		F. 29	Feb. 8 & 4	42%	17%	2	1	5%	5%	1%	7	6%								
January....	22.18°	42°	4° 38°			R. & F. 12	17 & 21		F. 22	21 & 22	1%	2	1	5%	5%	1%	7	6%								8.72	10	4.49
February...	23.23	40	2 38			F. 16	9		F. 29	8 & 4	1%	1%	1%	1%	4%	5	2%	3%	5%							6.89	6	1.48
March.....	32.51	40	23 17			R. 13	25		R. & F. 18	8, 4, 18, 19, 25	5	1%	8	5%	4%	3	1%	4%								6.67	10	1.94
April.....	38.75	50	23 22			F. 16	9		F. 18	9 & 10	5%	2%	8	5%	6	2%	%	8%								*2.08	8	2.83
May.....	49.49	70	30 40			R. 19	6 & 25		F. 22	26 & 27	3%	2	%	8%	2%	1	%	4%								4.68	4	1.77
June.....	59.13	72	45 26			R. 14	10		F. 22	7 & 9	2%	1	2	7	1%	1%	1%	8								4.90	3	1.00
July.....	62.75	75	51 24			R. 18	1		F. 17	2	7	2	1	7%	8	2	%	4%								4.60	7	9.17

August.....	64.97	76	32	34	7.90	9.54	F. 14	20	F. 18	29	4½	1½	2½	11	2½	1	3½	4.10	5	.99	
September.	55.50	75	34	41	9.48	11.90	R. 18	23 & 25	F. 24	25	4	1½	1½	8	7	3½	2½	6	8.53	3	1.43
October....	48.97	69	34	35	8.19	9.41	R. 20	21	R. 24	31	1½	1	2	5½	6	6	4½	4½	4.23	5	1.58
November.	32.02	44	14	30	4.73	7.20	R. 13	7 & 9	F. 21	26	4½	1	1½	6½	1	2	3½	9	8.43	5	2.16
December..	19.95	36	-9	45	6.74	9.41	R. 19	23	F. 19	30	2½	¾		2½	4	4½	11	5	8.60	5	.94

* No record of first thirteen days of April.



LAWS OF MICHIGAN

CONCERNING THE

SOLEMNIZATION OF MARRIAGES,

AND THE

RECORD AND RETURN

OF

BIRTHS, MARRIAGES, AND DEATHS.

CHAP. CLXIX., COMPILED LAWS OF 1871.

MARRIAGE AND THE SOLEMNIZATION THEREOF.

SECTION.

4719. Who shall be capable of contracting Marriage.

4720. Marriage is a civil contract.

4721. Who shall not intermarry.

4723. 4724. Who not to marry.

4725. Marriage, by whom solemnized.

4726. One of parties to be examined on oath.

SECTION.

4727. No particular form required.

4728. Forfeiture for joining persons in Marriage contrary to law.

4729. Punishment of persons unauthorized etc.

4730. Marriages not void in certain cases.

4731. Marriages among Quakers, etc.

4732. Certificates and record made evidence.

Chapter Eighty-three of Revised Statutes of 1846.*

(4719.) SECTION 1. Every male who shall have attained the full age of eighteen years, and every female who shall have attained the full age of sixteen years, shall be capable in law of contracting marriage, if otherwise competent.

(4720.) SEC. 2. Marriage, so far as its validity in law is concerned, is a civil contract, to which the consent of parties capable in law of contracting is essential.

(4721.) SEC. 3. No man shall marry his mother, grandmother, daughter, granddaughter, stepmother, grandfather's wife, son's wife, grandson's wife, wife's mother, wife's grandmother, wife's daughter, wife's granddaughter, nor his sister, brother's daughter, sister's daughter, father's sister, or mother's sister.

(4722.) SEC. 4. No woman shall marry her father, grandfather, son, grandson, stepfather, grandmother's husband, daughter's husband, granddaughter's husband, husband's father, husband's grandfather, husband's son, husband's

* For prior Statutes relative to the solemnization of Marriages, see Woodward Code, p. 42; Cass Code, p. 111; Code of 1820, p. 239; Rev. of 1827, p. 280; Laws of 1832, p. 6; Rev. of 1833, p. 329; R. S. of 1833, p. 383.

grandson, nor her brother, brother's son, sister's son, father's brother, or mother's brother.

(4723.) SEC. 5. No marriage shall be contracted whilst either of the parties has a former wife or husband living, unless the marriage with such former wife or husband shall have been dissolved.

(4724.) SEC. 6. No white person shall intermarry with a negro, and no insane person or idiot shall be capable of contracting marriage.

(4725.) SEC. 7. Marriages may be solemnized by any justice of the peace in the county in which he was chosen, and they may be solemnized throughout the State by any minister of the gospel who has been ordained according to the usages of his denomination, and who is a pastor of any church or churches in this State, or who shall continue to preach the gospel in this State: *Provided*, That all non-resident ministers of the gospel who are authorized by this act to solemnize marriages, shall keep proper records and make returns as required by section two, chapter sixteen of the compiled laws of eighteen hundred and seventy-one.*

(4726.) SEC. 8. All justices of the peace and ministers of the gospel are hereby authorized and required, before solemnizing any marriage, to examine at least one of the parties on oath, which oath they are hereby authorized to administer, as to the legality of such intended marriage.

(4727.) SEC. 9. In the solemnization of marriages, no particular form shall be required, except that the parties shall solemnly declare, in the presence of the magistrate or minister, and the attending witnesses, that they take each other as husband and wife; and in every case there shall be at least two witnesses, besides the minister or magistrate, present at the ceremony.

SEC. 10.°

SEC. 11.°

SEC. 12.°

SEC. 13.°

*As amended by Act No. 85, Laws of Michigan, 1878.

°Previous to 1871 the Mayor of Flint was also authorized to solemnize marriages.

°Repealed by Act 194, Laws of 1867, p. 266, Sec. 10.

(4728.) SEC. 14. If any justice of the peace or minister of the gospel shall join any person in marriage contrary to the provisions of this chapter, he shall forfeit for every such offense a sum not exceeding five hundred dollars.

(4729.) SEC. 15. If any person shall undertake to join others in marriage, knowing that he is not lawfully authorized so to do, or knowing of any legal impediment to the proposed marriage, he shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be punished by imprisonment in the county jail not more than one year, or by a fine not less than fifty nor more than five hundred dollars, or by both such fine and imprisonment, in the discretion of the court.

(4730.) SEC. 16. No marriage solemnized before any person professing to be a justice of the peace or a minister of the gospel, shall be deemed or adjudged to be void, nor shall the validity thereof be in any way affected, on account of any want of jurisdiction or authority in such supposed justice or minister: *Provided*, The marriage be consummated with a full belief on the part of the persons so married, or either of them, that they have been lawfully joined in marriage.

(4731.) SEC. 17. The preceding provisions of this chapter, so far as they relate to the manner of solemnizing marriages, shall not affect marriages among the people called Friends or Quakers; nor marriages among people of any other particular denomination having, as such, any peculiar mode of solemnizing marriages; but such marriages may be solemnized in the manner heretofore used and practiced in their respective societies or denominations.

(4732.) SEC. 18. The original certificates and records of marriage made by the minister or justice, as prescribed in this chapter, and the record thereof made by the county clerk, or a copy of such record duly certified by such clerk, shall be received in all courts and places as presumptive evidence of the fact of such marriage.

AN ACT

TO PROVIDE FOR THE

REGISTRATION OF BIRTHS, MARRIAGES, AND DEATHS.

BEING ACT No. 194 OF 1867, AS AMENDED BY ACT No. 125 OF 1869.

Duties of supervisors and assessors.

In 1869 returns to be made from April 5 to Dec. 31, 1868

Return to county clerk

In 1870 and thereafter.

Returns to include from January to December last preceding.

Statistics, how obtained.

Compensation.

Proviso relative to the city of Detroit.

SECTION 1. *The People of the State of Michigan enact*, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every year thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: *Provided*, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed

by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

Duty of
common
council.

Persons to
be appointed
by.

Compensa-
tion of per-
sons so ap-
pointed.

How paid.

Penalties.

SEC. 2. Every justice of the peace, minister of the gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.

Marriages to
be recorded.

Marriage of
Quakers.

Certificates
to be fur-
nished.

Fee for re-
cording.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by

County
clerks; du-
ties of.

the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: *Provided*, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death, the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the

Births, marriages and deaths to be numbered and indexed.

Record of births shall state.

Proviso.

Record of marriages shall state.

Record of deaths shall state.

names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Return of
county clerk.

Compensa-
tion.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

Secretary of
State; duties
of.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results, and deductions therefrom as will render them of practical utility,

Bound vol-
umes of re-
ports.

Secretary of
State's re-
port to Gov-
ernor.

and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Neglect to
keep rec-
ords.

SEC. 6. Every justice of the peace, minister of the gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

Neglect to
deliver cer-
tificates.

Penalty.

Certificate
of death.

SEC. 7. Every physician, surgeon, or midwife, who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease, or cause (if known), producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of

Refusal to
make certifi-
cate.

Penalty.

prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels, navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who,

Facts to be obtained by supervisor.

Refusal to furnish.

Obtained under oath.

Neglecting to answer a subpoena.

Penalty.

Perjury. after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Neglect to perform duties. SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Sections repealed. SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding sections. And such county clerks as have made returns of the births, marriages and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

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